

Table 69

Million US \$

Cuban Foreign Trade <sup>a</sup>

	Total Trade	Communist Countries			Non-Communist Countries	
		Total	USSR	Eastern Europe	Other <sup>b</sup>	
1965 Exports	691	529	323	103	103	162
Imports	866	649	428	98	123	217
1970 Exports	1,050	778	529	150	99	272
Imports	1,311	905	691	125	89	406
1975 Exports	3,572	2,401	2,011	279	111	1,171
Imports	3,767	1,935	1,513	304	118	1,832
1976 Exports	3,284	2,484	1,998	353	133	800
Imports	3,879	2,267	1,818	356	93	1,612
1977 Exports	3,669	3,056	2,602	341	113	613
Imports	4,362	2,907	2,341	471	95	1,455
1978 Exports	4,545	3,855	3,320	397	138	690
Imports	4,732	3,769	3,083	537	149	963
1979 Exports	4,820	4,045	3,337	N.A.	N.A.	775
Imports	5,088	4,220	3,483	N.A.	N.A.	868
1980 <sup>c</sup> Exports	5,608	3,799	3,055	N.A.	N.A.	1,809
Imports	5,987	4,714	3,490	N.A.	N.A.	1,273

<sup>a</sup> Exports are on an f.o.b. basis; imports are on a c.i.f. basis. Cuban trade with non-Communist countries is based on hard currency world prices while its Communist country trade uses soft currency negotiated prices which are frequently subsidized in Cuba's favor and do not reflect real market values. The result is a more favorable global trade balance than if Cuba conducted all of its trade at world market prices.

<sup>b</sup> Including data for China, Mongolia, North Korea, and Vietnam.

<sup>c</sup> Preliminary.

**Table 70** Million US \$**Cuban Exports <sup>a</sup>**

	1965	1970	1971	1972	1973	1974	1975	1976	1977
Total	691	1,050	861	840	1,372	2,707	3,572	3,284	3,669
Sugar	591	806	657	622	1,032	2,336	3,209	2,855	3,067
Raw and refined	579	785	634	602	1,011	2,299	3,183	2,832	3,038
Molasses	12	21	23	20	21	37	26	23	29
Minerals	50	175	136	125	190	171	169	201	239
Nickel	40	173	136	124	182	167	164	193	234
Other	10	2	Negl.	1	8	4	5	8	5
Tobacco	33	33	32	40	62	73	63	74	84
Raw	19	15	14	15	23	25	22	26	34
Manufactured	14	18	18	25	39	48	41	48	50
Foodstuffs	5	29	31	45	86	120	131	153	278
Fish and shellfish	3	19	22	29	40	59	63	79	82
Citrus	1	3	3	5	10	15	14	16	21
Other	12	7	5	8	2	7	Negl.	1	1

<sup>a</sup> Exports are f.o.b.**Table 71** Million US \$**Cuban Imports <sup>a</sup>**

	1965	1970	1971	1972	1973	1974	1975	1976	1977
Total	866	1,311	1,387	1,297	1,741	2,693	3,767	3,879	4,362
Foodstuffs	205	263	316	324	411	684	718	723	736
Raw material and intermediate goods	64	138	127	118	157	233	357	255	288
Fuel	85	114	127	163	194	241	377	423	605
Petroleum	81	110	123	157	189	237	372	418	599
Machinery and transportation equipment	133	368	390	245	365	552	911	1,220	1,433
Manufactures	153	131	138	149	215	341	465	399	438
Other	226	297	289	298	399	642	939	859	862

<sup>a</sup> Imports are c.i.f.

**Table 72** Billion US \$**Net Financial Flows to Developing Countries <sup>a</sup>**

Net Disbursements	1973	1974	1975	1976	1977	1978	1979
<b>Total</b>	<b>30.6</b>	<b>33.9</b>	<b>53.4</b>	<b>57.1</b>	<b>63.4</b>	<b>79.6</b>	<b>81.0</b>
<b>Official flows</b>	<b>14.4</b>	<b>20.0</b>	<b>26.3</b>	<b>26.2</b>	<b>26.9</b>	<b>32.9</b>	<b>38.4</b>
Bilateral	11.1	15.3	19.9	19.6	19.0	23.5	28.1
Industrial Countries	8.4	10.5	11.9	12.1	12.8	18.1	21.4
OPEC	1.4	3.9	6.5	6.1	4.8	4.0	4.8
Communist Countries	1.3	0.9	1.5	1.4	1.4	1.4	1.9
Multilateral	3.3	4.7	6.4	6.6	7.9	9.4	10.3
<b>Private flows</b>	<b>16.2</b>	<b>13.9</b>	<b>27.1</b>	<b>30.9</b>	<b>36.5</b>	<b>46.7</b>	<b>42.6</b>

<sup>a</sup> Net disbursements. Official flows consist of Official Development Assistance (ODA) and Other Official Flows (OOF). Private flows consist of direct investment, private export credits, and portfolio investment. Data differs from those presented in earlier editions of the *Handbook*.

**Table 73** Million US \$**Gross Official Bilateral Capital Flows to the Less Developed Countries <sup>a</sup>**

	1954-79	Annual Average 1954-70	1971	1972	1973	1974	1975	1976	1977	1978	1979
<b>Total</b>	<b>255,060</b>	<b>5,396</b>	<b>10,087</b>	<b>10,551</b>	<b>11,558</b>	<b>16,142</b>	<b>20,164</b>	<b>19,686</b>	<b>22,046</b>	<b>25,672</b>	<b>27,421</b>
<b>Development Assistance Committee <sup>b</sup></b>	<b>215,930</b>	<b>5,083</b>	<b>9,292</b>	<b>9,691</b>	<b>10,593</b>	<b>12,132</b>	<b>14,304</b>	<b>14,296</b>	<b>15,316</b>	<b>20,547</b>	<b>23,351</b>
United States	94,413	2,953	4,000	3,586	3,685	4,631	5,063	4,989	5,072	6,168	7,012
France	33,835	795	1,118	1,438	1,623	1,806	2,462	2,436	2,540	3,242	3,658
West Germany	21,522	338	897	995	1,363	1,422	1,720	1,586	1,733	2,521	3,541
United Kingdom	13,150	352	605	679	581	688	694	721	683	1,065	1,453
Japan	17,830	220	1,283	1,282	1,389	1,206	1,219	1,038	1,457	2,538	2,682
Other Developed Countries <sup>c</sup>	35,180	425	1,389	1,711	1,952	2,379	3,146	3,526	3,831	5,013	5,005
<b>OPEC <sup>d</sup></b>	<b>24,440</b>	<b>N.A.</b>	<b>N.A.</b>	<b>N.A.</b>	<b>N.A.</b>	<b>2,820</b>	<b>4,920</b>	<b>4,210</b>	<b>5,450</b>	<b>3,990</b>	<b>3,050</b>
Communist Countries	14,690	315	800	860	965	1,190	940	1,180	1,280	1,135	1,020
USSR	8,230	215	420	430	500	705	500	465	545	480	575
Eastern Europe	3,635	60	190	170	225	230	255	380	475	390	265
China	2,825	40	190	260	240	255	185	335	260	265	180

<sup>a</sup> Total gross official capital flows include official development assistance, which is concessional, and other official flows, which are less concessional or are primarily trade facilitating in character.

<sup>b</sup> Members of the Organization for Economic Cooperation and Development.

<sup>c</sup> Including Australia, Austria, Belgium, Canada, Denmark, Finland, Italy, Norway, the

<sup>d</sup> Official development assistance—data for other official flows are not available for excluded.

OPEC.

Netherlands, Sweden, and Switzerland; also including Portugal for the period 1954-72. New Zealand became a DAC member in 1974. Disbursements by all donors to Yugoslavia are

**Table 74**

Million US \$

**Gross Official Bilateral Capital Flows<sup>a</sup> from Development  
Assistance Committee Members to the Less Developed Countries, 1954-79**

	Total	United States	Other <sup>b</sup>
<b>Total</b>	<b>215,930</b>	<b>94,413</b>	<b>121,517</b>
<b>Africa</b>	<b>51,995</b>	<b>8,169</b>	<b>43,826</b>
Algeria	6,848	763	6,085
Guinea	350	163	187
Other	44,797	7,243	37,554
<b>East Asia</b>	<b>39,944</b>	<b>23,974</b>	<b>15,970</b>
Indonesia	8,681	2,978	5,703
South Korea	9,132	6,731	2,401
Other	22,131	14,265	7,866
<b>Latin America</b>	<b>36,119</b>	<b>18,602</b>	<b>17,517</b>
Brazil	6,967	4,529	2,438
Chile	3,137	2,256	881
Other	26,015	11,817	14,198
<b>Middle East and South Asia</b>	<b>62,879</b>	<b>33,971</b>	<b>28,908</b>
Afghanistan	832	461	371
Egypt	5,650	3,509	2,141
India	19,698	9,963	9,735
Iran	2,614	1,177	1,437
Iraq	419	53	366
North Yemen	273	92	181
Pakistan	9,256	5,319	3,937
Syria	341	210	131
Turkey	5,487	2,939	2,548
Other	18,309	10,248	8,061
<b>Europe</b>	<b>5,409</b>	<b>3,562</b>	<b>1,847</b>
Other	<b>19,584</b>	<b>6,135</b>	<b>13,449</b>

<sup>a</sup> Total gross official capital flows include official development assistance, which is concessional, and other official flows, which are less concessional or are primarily trade facilitating in character. Data does not include flows to Yugoslavia.

<sup>b</sup> Including Australia, Austria, Belgium, Canada, Denmark, Finland, France, Italy, Japan, Norway, the Netherlands, Sweden, Switzerland, the United Kingdom, and West Germany; also including Portugal for the period 1954-72. New Zealand became a DAC member in 1974.

Table 75

US Economic Loans and Grants Extended to the Less Developed Countries <sup>a</sup>

	1946-80 <sup>b</sup>	1975 <sup>c</sup>	1976 <sup>c</sup>	1977 <sup>c</sup>	1978 <sup>c</sup>	1979 <sup>c</sup>	1980 <sup>c</sup>
Total	N.A.	4,908	5,790	5,590	6,626	7,106	7,572
Africa	8,221	335	388	417	603	601	799
Ethiopia	388	24	14	6	10	16	15
Ghana	390	8	23	13	12	24	28
Liberia	309	16	7	21	7	18	23
Libya	212	0	0	0	0	0	0
Morocco	1,006	24	49	27	36	27	27
Nigeria	406	9	1	0	0	0	0
Tunisia	895	13	13	24	39	32	29
Zaire	628	5	37	46	32	37	26
Other	3,987	236	244	280	467	447	651
East Asia	27,085	736	437	341	375	352	407
Indonesia	2,752	90	161	134	197	191	196
Kampuchea	889	149	0	0	0	0	0
Laos	903	26	0	0	1	2	0
Philippines	2,102	68	86	87	84	72	83
South Korea	5,983	37	138	77	59	41	31
China (Taiwan)	2,207	0	0	0	0	0	0
Thailand	742	7	17	18	11	26	30
Other	11,507	359	35	25	23	20	67
Latin America	12,327	776	520	348	385	449	499
Argentina	199	Negl.	Negl.	Negl.	0	Negl.	0
Bolivia	807	26	32	46	53	51	30
Brazil	2,426	15	6	4	2	2	2
Chile	1,172	96	83	33	7	14	10
Colombia	1,362	28	42	9	7	9	23
Dominican Republic	646	12	30	14	6	48	56
Ecuador	320	8	5	4	6	6	12
Guatemala	451	14	48	21	11	25	13
Mexico	327	Negl.	1	16	20	13	7
Panama	425	21	31	16	23	21	2
Peru	661	16	24	23	55	71	53
Venezuela	201	2	1	Negl.	0	Negl.	0

Other	3,330	538	217	162	195	189	291
<b>Middle East and South Asia</b>	<b>38,669</b>	<b>1,786</b>	<b>2,932</b>	<b>2,396</b>	<b>2,577</b>	<b>2,795</b>	<b>2,802</b>
Afghanistan	537	21	13	21	12	11	0
Bangladesh	1,503	304	219	145	194	208	157
Egypt	6,373	370	1,017	908	943	1,088	1,166
Greece	1,910	0	65	0	0	0	0
India	10,122	249	204	126	196	228	222
Iran	766	2	1	0	0	Negl.	0
Israel	5,586	353	793	742	792	790	786
Jordan	1,423	99	148	84	103	101	73
Pakistan <sup>d</sup>	4,971	181	268	108	78	50	59
Turkey	2,984	4	0	Negl.	1	70	198
Other	2,494	203	204	262	258	249	141
<b>Europe and Oceania</b>	<b>N.A.</b>	<b>95</b>	<b>195</b>	<b>263</b>	<b>360</b>	<b>52</b>	<b>95</b>
Spain	1,055	3	0	10	7	7	7
Other	N.A.	92	195	253	353	45	88
<b>Interregional</b>	<b>25,894</b>	<b>1,180</b>	<b>1,318</b>	<b>1,825</b>	<b>2,326</b>	<b>2,857</b>	<b>2,970</b>

<sup>a</sup> Data are for fiscal years and are for official development assistance, which is concessional. Data for 1976 include the transitional quarter—July, August, and September.

<sup>b</sup> Data are reported on a net basis, excluding total debt obligations.

<sup>c</sup> Data reported are on a gross basis.

<sup>d</sup> Including Bangladesh prior to 1972.

**Table 76** Thousand Barrels Per Day of Oil Equivalent**Primary Energy Production <sup>a</sup>**

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>OECD</b>											
United States	21,143	24,918	30,819	31,701	30,508	30,154	30,134	30,340	30,884	32,161	32,614
Canada	1,750	2,539	3,709	4,942	4,893	4,678	4,567	4,774	4,818	5,166	4,748
Japan	1,017	1,106	1,028	774	861	874	923	851	992	1,076	1,188
Norway	158	255	298	403	427	590	721	673	1,056	1,240	1,483
European Community	<b>6,920</b>	<b>7,240</b>	<b>7,170</b>	<b>7,700</b>	<b>7,780</b>	<b>8,200</b>	<b>8,500</b>	<b>9,270</b>	<b>9,360</b>	<b>9,990</b>	<b>10,100</b>
Belgium <sup>b</sup>	31	274	161	129	120	146	159	160	155	144	153
France	1,082	1,115	1,026	860	874	899	819	975	977	970	1,073
Italy	395	423	490	502	504	515	522	528	551	546	522
Netherlands	216	233	648	1,349	1,583	1,702	1,818	1,814	1,667	1,751	1,661
United Kingdom	2,691	2,680	2,346	2,452	2,290	2,571	2,786	3,381	3,667	4,162	4,237
West Germany	2,503	2,521	2,495	2,400	2,402	2,357	2,386	2,402	2,323	2,395	2,396
<b>Other Countries</b>											
Iran	1,126	1,977	3,920	6,267	6,481	5,802	6,332	6,093	5,653	3,383	1,794
Kuwait	1,766	2,451	3,138	3,171	2,686	2,225	2,291	2,127	2,313	2,741	1,913
Saudi Arabia	1,405	2,313	3,929	7,763	8,717	7,312	8,877	9,554	8,715	10,174	10,550
<b>Communist Countries</b>											
USSR and Eastern Europe	<b>13,200</b>	<b>17,800</b>	<b>22,300</b>	<b>25,100</b>	<b>26,400</b>	<b>27,800</b>	<b>29,200</b>	<b>30,500</b>	<b>31,600</b>	<b>32,600</b>	<b>33,300</b>
USSR	9,280	13,210	17,020	19,550	20,710	21,920	23,150	24,290	25,400	26,260	27,100
Eastern Europe	<b>3,870</b>	<b>4,570</b>	<b>5,280</b>	<b>5,550</b>	<b>5,660</b>	<b>5,840</b>	<b>6,030</b>	<b>6,180</b>	<b>6,250</b>	<b>6,310</b>	<b>6,240</b>
Bulgaria	109	144	151	133	123	143	145	154	151	170	181
Czechoslovakia	761	865	906	898	908	907	931	948	966	974	975
East Germany	1,027	1,113	1,172	1,105	1,113	1,126	1,143	1,171	1,175	1,198	1,215
Hungary	207	254	277	276	276	270	286	292	304	287	282
Poland	1,278	1,531	1,895	2,133	2,197	2,294	2,384	2,479	2,527	2,600	2,489
Romania	487	666	879	1,009	1,039	1,096	1,145	1,133	1,127	1,077	1,096
<b>Other</b>											
China	N.A.	2,682	4,131	5,476	5,842	6,776	7,033	7,874	8,748	8,995	8,856
North Korea	N.A.	324	466	546	N.A.	622	618	622	644	663	N.A.
Yugoslavia	202	286	330	362	400	402	419	458	475	496	525

<sup>a</sup> Data are for coal, crude oil, natural gas, and hydroelectric and nuclear electric power expressed in terms of oil equivalent, and exclude minor fuels such as peat, shale, and fuelwood.

<sup>b</sup> Including data for Luxembourg.

**Table 77** Thousand Barrels per Day of Oil Equivalent**Primary Energy Consumption <sup>a</sup>**

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
<b>OECD</b>										
United States	20,628	24,782	31,577	35,233	34,534	33,423	35,560	36,573	37,947	37,927
Canada	1,960	2,417	3,148	3,882	3,832	3,942	4,006	4,153	4,216	4,342
Japan	1,931	3,179	5,821	7,068	7,148	6,879	7,126	7,160	7,311	7,735
Norway	186	267	360	408	401	406	426	414	457	486
<b>European Community</b>										
Belgium <sup>b</sup>	588	751	971	1,093	1,064	972	1,031	1,021	1,067	1,104
France	1,840	2,364	3,080	3,781	3,669	3,454	3,660	3,698	3,916	4,107
Italy	1,058	1,617	2,479	2,796	2,793	2,666	2,841	2,873	2,858	2,972
Netherlands	487	735	1,156	1,468	1,410	1,392	1,522	1,477	1,527	1,572
United Kingdom	3,506	3,962	4,358	4,587	4,384	4,129	4,200	4,286	4,288	4,471
West Germany	2,960	3,762	4,798	5,390	5,266	4,935	5,338	5,318	5,449	5,734
<b>Other Countries</b>										
Iran	97	135	389	481	560	609	683	740	891	N.A.
Kuwait	49	93	110	68	74	79	92	105	114	N.A.
Saudi Arabia	20	35	103	75	95	124	148	156	179	N.A.
<b>Communist Countries</b>										
<b>USSR and Eastern Europe</b>										
USSR <sup>c</sup>	8,520	11,750	14,830	17,230	18,050	19,020	19,750	20,660	21,620	22,876
<b>Eastern Europe</b>										
Bulgaria	132	254	391	470	504	526	550	591	621	670
Czechoslovakia	798	986	1,136	1,243	1,275	1,298	1,361	1,452	1,462	1,482
East Germany	1,171	1,336	1,491	1,538	1,555	1,576	1,617	1,676	1,721	1,806
Hungary	269	360	431	475	489	509	533	548	591	599
Poland	1,053	1,295	1,653	1,863	1,926	2,078	2,185	2,293	2,371	2,470
Romania	376	565	844	1,031	1,044	1,125	1,219	1,244	1,313	1,309
<b>Other</b>										
Yugoslavia	227	331	448	542	597	598	639	677	719	789

<sup>a</sup> Data are for coal, crude oil, natural gas, and hydroelectric and nuclear electric power expressed in terms of oil equivalent. Data exclude minor fuels such as peat, shale, and fuelwood and include marine bunkers.

<sup>b</sup> Including data for Luxembourg.

<sup>c</sup> Including peat, shale, and fuelwood.



**Table 78** Thousand Barrels Per Day of Oil Equivalent**Primary Energy Production, by Type <sup>a</sup>**

	1970				1979				1980			
	Coal	Crude Oil	Natural Gas	Hydro/Nuclear	Coal	Crude Oil	Natural Gas	Hydro/Nuclear	Coal	Crude Oil	Natural Gas	Hydro/Nuclear
OECD												
United States	7,359	11,380	10,686	1,394	9,233	10,118	9,979	2,807	9,866	10,180	9,821	2,747
Canada	171	1,625	1,110	803	399	1,786	1,631	1,350	437	1,714	1,194	1,403
Japan	538	18	45	427	239	10	41	784	244	12	41	891
Norway	6	0	0	292	4	443	358	435	4	568	463	448
European Community												
Belgium <sup>b</sup>	154	0	1	6	83	0	0	61	86	0	0	67
France	523	68	118	317	262	40	134	534	256	46	132	639
Italy	9	30	227	224	5	36	236	256	7	39	214	262
Netherlands	59	43	544	2	0	32	1,701	18	0	31	1,609	21
United Kingdom	1,992	0	194	160	1,663	1,613	665	221	1,742	1,667	614	214
West Germany	1,999	152	224	120	1,682	100	307	306	1,690	97	283	326
Other Countries												
Iran	7	3,870	35	8	12	3,178	173	20	12	1,672	90	20
Kuwait	0	3,050	88	0	0	2,622	119	0	0	1,779	134	0
Saudi Arabia	0	3,890	39	0	0	9,840	334	0	0	10,205	N.A.	0
Communist Countries												
USSR and Eastern Europe												
USSR	6,060	7,040	3,270	650	6,760	11,710	6,740	1,050	6,700	12,000	7,300	1,100
Eastern Europe												
Bulgaria	125	7	8	12	111	5	2	52	119	5	2	55
Czechoslovakia	861	4	17	23	924	2	13	35	910	2	11	52
East Germany	1,150	1	10	12	1,075	1	53	69	1,085	1	53	76
Hungary	182	39	56	1	140	41	105	1	141	41	99	1
Poland	1,790	8	84	11	2,459	7	121	13	2,364	7	105	13
Romania	125	281	460	13	162	259	606	50	175	241	628	52
Other												
China	3,298	590	71	172	6,348	2,081	269	298	6,198	2,076	254	329
North Korea	362	0	0	104	543	0	0	120	N.A.	N.A.	N.A.	N.A.
Yugoslavia	164	56	18	93	228	83	32	153	244	86	31	164

<sup>a</sup> Data are for coal, crude oil, natural gas, and hydroelectric and nuclear electric power expressed in terms of oil equivalent, and exclude minor fuels such as peat, shale, and fuelwood.

<sup>b</sup> Including data for Luxembourg.

Table 79

Proved Reserves of Crude Oil, Natural Gas, and Coal, Yearend 1980 <sup>a</sup>

	Crude Oil (Billion Barrels)	Natural Gas (Trillion Cubic Feet)	Coal <sup>b</sup> (Million Metric Tons)	Crude Oil (Billion Barrels)	Natural Gas (Trillion Cubic Feet)	Coal <sup>b</sup> (Million Metric Tons)
OECD						
United States	26	191	178,600			
Canada	6	87	9,400			
Norway	6	43	N.A.			
European Community						
United Kingdom	15	25	45,000			
West Germany	Negl.	6	34,400			
Other Countries						
Algeria	8	132	N.A.			
Brazil	1	2	8,100			
Ecuador	1	4	0			
Egypt	3	3	Negl.			
India	3	12	33,700			
Indonesia	10	24	1,400			
Iran	58	485	200			
Iraq	30	27	0			
Kuwait	65	31	0			
Libya	23	24	0			
Mexico	44	64	900			
Other Countries (continued)						
Nigeria	17	41	100			
Oman	2	2	0			
Qatar	4	60	0			
Saudi Arabia	165	110	0			
South Africa	0	0	26,900			
Syria	2	2	0			
United Arab Emirates	30	21	0			
Venezuela	18	42	1,000			
Communist Countries						
USSR and Eastern Europe						
USSR	45-65	1,060 <sup>c</sup>	256,000 <sup>c</sup>			
Eastern Europe						
Poland	Negl.	5	21,800			
Romania	1	9	400			
Other						
North Korea	0	0	8,000			
Yugoslavia	Negl.	1	8,500			

<sup>a</sup> The portion of total resources which has been assessed as being exploitable under local economic conditions and available technology. Source for Non-Communist countries: *Oil and Gas Journal*.

<sup>b</sup> Yearend 1977. Data are expressed in terms of coal equivalent (7,000 kilocalories per kilogram).

<sup>c</sup> Including proved, probable, and some possible reserves.

Table 80  
Thousand Barrels per DayCrude Oil Refining Capacity  
1 January 1981

OECD	44,193.9	Other Countries	678.6
United States	18,400.0	Argentina	500.0
Australia	743.1	Bahamas	1,401.6
Canada	2,166.0	Brazil	292.0
Japan	5,454.0	Egypt	556.8
Spain	1,463.8	India	1,393.5
European Community	15,967.0	Mexico	782.0
Belgium	1,055.9	Netherlands Antilles	1,068.8
France	3,341.5	Singapore	456.0
Italy	4,091.9	Trinidad and Tobago	728.0
Netherlands	1,827.0	Virgin Islands	
United Kingdom	2,629.5	Communist Countries	
West Germany	3,021.2	USSR and Eastern Europe	12,370.0
OPEC	4,773.1	USSR	10,000.0
Abu Dhabi	13.5	Eastern Europe	2,370.0
Algeria	122.4	Bulgaria	300.0
Ecuador	87.1	Czechoslovakia	430.0
Gabon	20.0	East Germany	450.0
Indonesia	445.2	Hungary	230.0
Iran	1,120.5	Poland	380.0
Iraq	168.5	Romania	580.0
Kuwait	645.0	Other	
Libya	142.0	China	1,600.0
Nigeria	160.0	Cuba	125.0
Qatar	12.8	North Korea	90.0
Saudi Arabia	487.3	Yugoslavia	530.0
Venezuela	1,348.8		

Table 81  
Thousand Barrels per DayCrude Oil Production <sup>a</sup>

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>OECD <sup>b</sup></b>	<b>7,860</b>	<b>9,010</b>	<b>11,500</b>	<b>11,800</b>	<b>11,200</b>	<b>10,800</b>	<b>10,700</b>	<b>11,300</b>	<b>12,200</b>	<b>12,800</b>	<b>12,900</b>
United States	7,055	7,804	9,648	9,208	8,774	8,375	8,131	8,245	8,707	8,533	8,595
Canada	526	793	1,305	1,800	1,684	1,439	1,295	1,320	1,313	1,496	1,424
European Community	221	309	264	212	200	197	429	955	1,270	1,750	1,810
<b>Other Countries</b>											
Algeria	183	544	976	1,065	980	945	1,025	1,100	1,161	1,154	1,012
Gabon	16	25	104	150	202	223	223	222	209	203	175
Indonesia	411	501	855	1,339	1,375	1,307	1,504	1,686	1,635	1,591	1,577
Iran	1,068	1,895	3,831	5,861	6,022	5,350	5,883	5,663	5,242	3,168	1,662
Iraq	1,004	1,311	1,563	2,018	1,971	2,262	2,415	2,348	2,562	3,477	2,514
Kuwait <sup>c</sup>	1,696	2,362	2,983	3,018	2,547	2,085	2,143	1,980	2,131	2,497	1,654
Libya	0	1,238	3,321	2,175	1,521	1,480	1,933	2,063	1,983	2,092	1,787
Mexico	271	328	420	465	571	705	831	981	1,209	1,461	1,937
Nigeria	17	263	1,090	2,054	2,255	1,783	2,067	2,085	1,897	2,302	2,055
Qatar	175	227	367	570	518	438	497	445	487	508	472
Saudi Arabia <sup>c</sup>	1,315	2,204	3,789	7,600	8,480	7,075	8,578	9,213	8,302	9,535	9,900
United Arab Emirates	0	282	691	1,533	1,680	1,663	1,936	1,998	1,830	1,831	1,709
Venezuela	2,846	3,473	3,708	3,366	2,976	2,346	2,294	2,238	2,166	2,356	2,167
<b>Communist Countries</b>											
USSR and Eastern Europe	3,210	5,140	7,300	8,710	9,300	9,920	10,500	11,000	11,500	11,700	12,000
USSR	2,943	4,835	6,976	8,370	8,950	9,570	10,110	10,650	11,140	11,400	11,700
Eastern Europe	266	304	327	342	348	349	352	350	331	302	286
Bulgaria	4	5	7	4	3	2	2	3	3	5	5
Czechoslovakia	3	4	4	3	3	3	3	2	2	2	2
East Germany	1	1	1	1	1	1	1	1	1	1	1
Hungary	24	36	39	40	40	40	43	44	44	41	41
Poland	4	7	8	8	11	11	9	7	7	7	7
Romania	230	251	268	286	290	292	294	293	274	246	230
<b>Other</b>											
Albania	15	16	30	34	35	37	38	38	N.A.	N.A.	N.A.
China <sup>d</sup>	102	228	602	1,138	1,364	1,542	1,736	1,874	2,082	2,122	2,114
Cuba	1	1	3	3	3	5	5	5	5	5	5
Yugoslavia	18	40	57	68	69	74	78	79	82	83	85

<sup>a</sup> Unless otherwise indicated, data are for crude oil and exclude natural gas liquids, shale oil, natural gasoline, and synthetic crude oil.<sup>b</sup> Including shale oil.<sup>c</sup> Including about one-half of neutral zone production, which amounted to 473,000 barrels per day in 1980.<sup>d</sup> Including small quantities of synthetic crude oil.

Table 82  
Thousand Barrels per Day

## Crude Oil Consumption

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
United States	9,797	11,513	14,697	16,855	16,175	15,860	16,985	17,895	18,330	17,985	16,410
Japan	590	1,750	4,000	5,390	5,250	4,965	5,160	5,400	5,420	5,500	5,000
Canada	837	1,115	1,484	1,755	1,690	1,765	1,770	1,765	1,800	1,825	1,790
Western Europe	4,007	7,661	12,402	14,690	13,790	13,075	13,905	13,635	14,045	14,390	13,410
Belgium, Luxembourg, Netherlands	420	835	1,290	1,470	1,275	1,195	1,330	1,280	1,315	1,390	1,370
France	579	1,117	1,949	2,485	2,360	2,215	2,395	2,255	2,360	2,395	2,280
Italy	475	1,042	1,760	2,080	2,075	1,905	1,995	1,910	1,965	2,035	1,945
Spain <sup>a</sup>	121	253	540	760	845	890	970	955	975	1,035	1,040
United Kingdom	975	1,473	2,030	2,270	2,145	1,870	1,850	1,865	1,905	1,895	1,615
West Germany	659	1,569	2,572	2,985	2,675	2,565	2,765	2,705	2,855	2,900	2,605
Other	778	1,372	2,261	2,640	2,410	2,430	2,600	2,670	2,675	2,735	2,550

<sup>a</sup> Including the Canary Islands.

Table 83

Thousand Barrels per Day

Major Exporters of Oil <sup>a</sup>

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Non-Communist Countries <sup>b</sup>											
United Arab Emirates	777	1,055	1,203	1,522	1,690	1,661	1,933	1,993	1,824	1,815	1,629
Algeria	985	693	1,007	1,029	937	940	985	1,065	1,081	1,031	892
Indonesia	725	749	943	1,167	1,160	1,095	1,327	1,473	1,387	1,270	1,182
Iran	3,519	4,173	4,675	5,424	5,532	4,886	5,330	4,986	4,575	2,580	1,092
Iraq	1,499	1,622	1,437	1,933	1,870	2,096	2,280	2,203	2,418	3,309	2,299
Kuwait	2,831	3,009	3,136	2,847	2,396	1,944	2,128	1,938	2,088	2,507	1,531
Libya	3,313	2,747	2,215	2,210	1,518	1,478	1,900	2,034	1,954	2,051	1,697
Nigeria	1,055	1,495	1,759	1,993	2,183	1,719	2,025	2,044	1,831	2,216	1,850
Saudi Arabia	3,564	4,481	5,764	7,346	8,244	6,932	8,422	8,950	8,064	9,192	9,365
Venezuela	3,470	3,282	3,065	3,150	2,752	2,086	2,132	1,964	1,942	2,074	1,802
Communist Countries											
USSR <sup>c</sup>	1,920	2,110	2,140	2,380	2,340	2,600	2,970	3,130	3,300	3,280	3,260

<sup>a</sup> Including refined products.<sup>b</sup> Excluding bunkers.<sup>c</sup> Gross basis.

**Table 84** Thousand Barrels per Day**Major Importers of Oil**

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
<b>OECD</b>											
United States	3,419	3,926	4,741	6,256	6,088	6,056	7,295	8,808	8,364	8,388	6,793
Canada	800	866	941	1,054	901	870	764	739	677	634	595
Japan	4,206	4,442	4,839	5,576	5,460	5,008	5,235	5,454	5,347	5,635	5,091
<b>European Community</b>											
France	2,146	2,333	2,557	2,875	2,742	2,278	2,598	2,514	2,494	2,762	2,519
Italy	2,345	2,426	2,485	2,669	2,516	2,121	2,268	2,302	2,363	2,435	1,883
United Kingdom	2,487	2,586	2,613	2,738	2,585	2,067	2,052	1,691	1,596	1,471	1,158
West Germany	2,676	2,764	2,880	3,046	2,796	2,509	2,809	2,768	2,848	2,972	2,692
<b>Other Countries</b>											
Brazil	380	456	515	751	728	731	837	837	945	984	932
India	264	304	313	343	340	320	316	356	376	414	459
Philippines	188	186	188	191	188	197	213	216	217	222	223
Thailand	105	129	151	172	142	167	174	186	218	225	233

Table 85

Thousands of Barrels per Day

Imports of Crude Oil and Refined Products  
by the OECD Countries, 1980

	OECD	US <sup>a</sup>	Japan	Canada	Total	Western Europe					Spain	Other	Australia	New Zealand
						West Germany	France	UK	Italy	Nether-lands				
Algeria	916	484	30	0	402	151	92	9	51	32	41	26	0	0
Bahrain	44	Negl	33	0	1	0	0	Negl	1	Negl	0	0	7	3
Egypt	262	40	3	0	219	6	5	59	129	6	8	6	0	0
Iraq	1,820	99	340	19	1,345	59	466	108	236	15	123	338	17	0
Kuwait	809	22	283	11	460	27	59	116	58	137	18	45	24	9
Libya	1,642	716	23	6	897	311	41	7	251	19	97	171	0	0
Qatar	358	25	133	0	196	4	49	7	28	57	27	24	3	1
Saudi Arabia	7,355	1,381	1,751	216	3,894	492	779	366	595	397	309	956	90	23
Syria	13	2	0	0	11	10	0	1	0	0	0	0	0	0
United Arab Emirates	1,492	286	617	7	576	126	159	57	49	38	65	82	6	0
OAPEC	14,711	3,055	3,213	259	8,001	1,186	1,650	730	1,398	701	688	1,648	147	36
Ecuador	53	31	17	0	5	Negl	0	0	0	0	1	4	0	0
Gabon	114	34	0	0	80	18	28	1	8	3	20	2	0	0
Indonesia	1,091	352	702	0	9	Negl	4	0	5	0	0	0	23	5
Iran	794	24	334	1	423	115	53	19	23	23	63	127	8	4
Nigeria	1,773	894	7	3	869	219	221	9	69	211	22	118	0	0
Venezuela	1,271	687	39	181	364	33	36	27	103	13	70	82	0	0
OPEC <sup>b</sup>	19,488	5,035	4,276	444	9,520	1,555	1,987	726	1,476	945	856	1,975	171	42
Canada	467	445	Negl	0	22	1	1	0	1	8	1	10	0	0
Mexico	730	552	21	12	145	1	24	6	20	6	88	0	0	0
Other <sup>c</sup>	3,242	757	758	137	2,169 <sup>d</sup>	1,119	492	366	524	602	107	1,787	44	36
<b>Total</b>	<b>24,246 <sup>e</sup></b>	<b>6,831</b>	<b>5,091</b>	<b>593</b>	<b>12,087 <sup>d</sup></b>	<b>2,692</b>	<b>2,509</b>	<b>1,158</b>	<b>2,151</b>	<b>1,567</b>	<b>1,060</b>	<b>3,778</b>	<b>222</b>	<b>81</b>
Consumption	37,866	17,006 <sup>f</sup>	5,000	1,775	13,410	2,605	2,280	1,615	1,945	840	1,040	3,085	595	80

<sup>a</sup> Products traced to source of crude.<sup>b</sup> OAPEC members excluding Bahrain, Egypt, and Syria plus other countries<sup>c</sup> Excluding Intra-OECD trade.<sup>d</sup> Excluding Intra-West European trade.<sup>e</sup> Including bunkers, refinery fuel, losses, and refinery gains.<sup>f</sup> Including unknown.

Table 86

Million Barrels per Day

Petroleum Products Production <sup>a</sup>

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
OECD											
United States	7.25	8.54	11.27	12.88	12.11	13.50	14.50	15.74	15.73	15.63	14.50
Canada	0.72	0.90	1.23	1.63	1.73	1.64	1.73	1.83	1.80	1.94	1.88
Japan	0.51	1.36	3.31	4.86	4.13	4.15	4.61	4.71	4.68	4.79	4.41
Spain	0.12	0.27	0.62	0.85	0.84	0.86	1.01	0.96	0.98	0.99	0.99
Sweden	0.06	0.08	0.24	0.21	0.20	0.21	0.29	0.29	0.31	0.32	0.35
European Community	<b>3.05</b>	<b>5.87</b>	<b>10.2</b>	<b>11.7</b>	<b>11.2</b>	<b>9.68</b>	<b>10.6</b>	<b>10.6</b>	<b>10.7</b>	<b>11.3</b>	<b>10.1</b>
Belgium	0.13	0.30	0.56	0.71	0.58	0.56	0.53	0.71	0.65	0.67	0.66
France	0.59	1.14	1.94	2.52	2.40	2.12	2.42	2.36	2.33	2.52	2.25
Italy	0.54	1.22	2.14	2.28	2.25	1.87	2.02	2.02	2.12	2.16	1.80
Netherlands	0.35	0.54	1.07	1.30	1.14	1.02	1.21	1.13	1.09	1.14	1.07
United Kingdom	0.82	1.21	1.93	2.11	2.19	1.85	1.93	1.84	1.90	1.94	1.70
West Germany	0.52	1.21	2.09	2.26	2.10	1.81	2.01	2.11	2.10	2.36	2.14
Communist Countries <sup>b</sup>											
USSR and Eastern Europe	<b>2.66</b>	<b>4.12</b>	<b>6.02</b>	<b>7.69</b>	<b>8.18</b>	<b>8.80</b>	<b>9.07</b>	<b>9.55</b>	<b>10.1</b>	<b>10.5</b>	<b>10.7</b>
USSR	2.30	3.50	5.00	6.25	6.70	7.20	7.30	7.70	8.10	8.40	8.60
Eastern Europe	<b>0.36</b>	<b>0.62</b>	<b>1.02</b>	<b>1.44</b>	<b>1.48</b>	<b>1.60</b>	<b>1.77</b>	<b>1.85</b>	<b>1.97</b>	<b>2.09</b>	<b>2.09</b>
Bulgaria	Negl.	0.04	0.11	0.18	0.20	0.19	0.20	0.22	0.23	0.27	0.29
Czechoslovakia	0.04	0.11	0.18	0.26	0.27	0.29	0.32	0.34	0.35	0.36	0.36
East Germany	0.04	0.10	0.19	0.30	0.30	0.31	0.33	0.35	0.36	0.38	0.38
Hungary	0.05	0.07	0.11	0.15	0.16	0.19	0.20	0.20	0.23	0.26	0.24
Poland	0.02	0.07	0.14	0.21	0.20	0.26	0.29	0.31	0.32	0.32	0.31
Romania	0.21	0.23	0.29	0.34	0.35	0.36	0.43	0.43	0.48	0.50	0.51
Other											
Cuba	N.A.	0.07	0.09	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12
Yugoslavia	0.03	0.06	0.13	0.18	0.20	0.20	0.22	0.25	0.27	0.30	0.29

<sup>a</sup> Unless otherwise indicated, data are for the following products, where they are produced: gasoline, kerosene, distillate fuel oil, lubricating oil, residual and other petroleum products, natural gasoline, and liquefied petroleum gases. Data exclude some minor miscellaneous products such as white spirits and asphalt.

<sup>b</sup> Data include products from indigenous and imported natural crude oil and from synthetic sources. Synthetic production is not included in production for the USSR.



Table 87

Natural Gas Production <sup>a</sup>

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
OECD <sup>b</sup>	13,700	18,200	27,100	31,100	30,700	29,500	29,700	30,200	30,200	31,300	30,000
United States <sup>c</sup>	12,770	16,040	21,920	22,650	21,600	20,110	19,950	20,025	19,975	20,470	20,145
Australia <sup>d</sup>	Negl.	Negl.	53	145	160	175	200	230	255	285	310
Canada	525	1,440	2,275	3,120	3,045	3,090	3,095	3,230	3,130	3,345	2,450
Norway	0	0	0	0	0	Negl.	Negl.	90	510	735	950
European Community	356	613	2,680	5,010	5,700	5,950	6,250	6,350	6,060	6,260	5,890
France	100	178	243	260	270	260	250	270	280	275	270
Italy	228	276	465	540	540	515	555	455	490	485	440
Netherlands	12	57	1,117	2,640	3,120	3,385	3,615	3,610	3,310	3,490	3,300
United Kingdom	Negl.	4	398	1,020	1,230	1,275	1,315	1,435	1,350	1,365	1,260
West Germany	16	98	465	550	540	515	515	580	625	630	580
Other Countries											
Argentina	49	149	212	240	255	280	290	305	295	285	350
Iran	34	43	71	695	785	770	760	740	685	355	185
Kuwait	33	63	180	185	185	185	195	210	220	245	275
Mexico <sup>e</sup>	222	250	481	540	560	585	580	600	745	920	1,120
Venezuela	163	250	349	460	475	450	480	525	510	515	520
Communist Countries <sup>f</sup>											
USSR and Eastern Europe	2,040	5,230	8,240	10,000	10,900	12,000	13,300	14,200	15,200	16,300	N.A.
USSR <sup>c</sup>	1,600	4,508	6,990	8,346	9,201	10,215	11,334	12,219	13,141	14,380	15,355
Eastern Europe	435	719	1,250	1,660	1,710	1,800	2,000	1,990	2,060	1,940	N.A.
Bulgaria	0	3	17	8	6	4	1	Negl.	1	5	N.A.
Czechoslovakia	51	34	43	37	34	33	35	35	41	39	39
East Germany	1	5	44	248	273	257	305	300	300	300	300
Hungary	12	39	123	170	180	183	215	233	259	230	216
Poland	19	46	176	205	195	204	229	245	269	246	212
Romania	352	592	847	989	1,019	1,115	1,216	1,181	1,190	1,117	1,158
Other											
China	N.A.	39	136	226	260	325	360	441	485	512	504
Yugoslavia	2	12	35	47	51	55	61	67	68	66	64

<sup>a</sup> Data include only gas from natural gas wells and associated gas from petroleum fields.

<sup>b</sup> Data are for net production—that is, for gas actually collected and utilized as fuel or raw material. They exclude gas used for repressuring, as well as gas flared, vented, or wasted, whether or not it has been processed for the extraction of natural gasoline.

<sup>c</sup> Data for the United States are in terms of net marketed production. Data for the USSR refer to gross production less losses and waste. US gross production (less losses and waste), which includes gas returned to reservoirs in order to maintain horizon

pressure, would be as follows (in billion cubic feet):

1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
14,510	17,660	23,790	24,070	22,850	21,100	20,940	21,100	21,310	21,400	21,600

A much smaller share of total production in the USSR is believed to be used for repressuring.

<sup>d</sup> Twelve months ending 30 June of the stated year.

<sup>e</sup> Including gas used for repressuring and gas wasted.

<sup>f</sup> Gross production.

Table 88

Million Metric Tons

Hard Coal Production <sup>a</sup>

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
OECD	923	992	983	914	898	953	975	978	949	1,040	1,110
United States	391.53	475.28	550.39	530.13	539.34	576.18	598.51	606.25	577.08	670.90	716.43
Australia	21.90	30.06	45.21 <sup>b</sup>	55.48 <sup>b</sup>	57.97 <sup>b</sup>	60.70 <sup>b</sup>	67.82 <sup>b</sup>	72.00 <sup>b</sup>	72.70 <sup>b</sup>	74.80 <sup>b</sup>	84.25 <sup>b</sup>
Canada	8.02	8.64	11.60	16.82	17.78	21.71	20.80	23.04	25.42	28.01	30.53
Japan <sup>c</sup>	51.07	49.53	39.69	22.41	20.33	19.00	18.40	18.25	18.99	17.64	18.03
Spain	13.78	12.94	10.75	10.00	10.45	10.82	10.70	12.07	11.69	11.50	12.82
European Community	432	409	317	272	244	257	251	239	236	234	240
Belgium	22.47	19.79	11.36	8.84	8.11	7.89	7.66	7.07	6.59	6.13	6.32
France	55.96	51.35	37.36	26.35	24.01	23.64	23.30	22.99	21.14	18.61	18.13
United Kingdom <sup>d</sup>	196.71	190.50	147.11	132.02	110.45	128.68	123.79	122.15	123.58	122.81	128.64
West Germany <sup>e</sup>	143.26	135.46	116.34	102.99	100.89	96.76	95.90	86.53	85.14	86.32	87.14
Other Countries											
India	52.59	67.16	73.69	77.87	84.08	95.89	100.87	100.12	101.29	103.54	107.41
South Africa	38.17	48.46	54.61	62.35	66.06	69.44	76.45	85.57	90.36	103.46	105.02
South Korea	5.35	10.25	12.39	13.57	15.29	17.58	16.43	17.23	18.06	18.20	18.54
Communist Countries											
USSR and Eastern Europe	496	556	613	657	675	696	712	728	733	738	727
USSR	355.92	397.64	432.72	461.22	473.37	485.00	494.00	503.00	501.00	497.00	494.00
Eastern Europe	140	158	180	196	201	211	218	225	232	241	233
Bulgaria	0.57	0.55	0.40	0.35	0.31	0.33	0.30	0.29	0.27	0.27	0.27
Czechoslovakia	26.40	27.76	28.20	27.78	27.97	28.12	28.27	27.96	28.30	28.46	28.20
East Germany	2.72	2.21	1.05	0.75	0.59	0.54	0.46	0.35	0.09	0.05	Negl
Hungary	2.85	4.36	4.15	3.41	3.21	3.02	2.93	2.93	2.95	3.00	3.07
Poland	104.44	118.83	140.10	156.63	162.00	171.62	179.30	186.11	192.62	200.94	193.12
Romania	3.40	4.66	6.40	7.17	7.11	7.32	7.11	7.15	7.42	8.11	8.80
Other											
China <sup>f</sup>	280.00	232.20	327.40	398.10	409.00	478.00	483.00	550.00	618.00	635.00	620.00
North Korea	6.80	12.30	21.80	26.40	25.80	30.40	31.20	32.00	33.60	34.60	35.00
Yugoslavia	1.28	1.17	0.64	0.58	0.60	0.60	0.59	0.51	0.47	0.43	0.39

<sup>a</sup> Unless otherwise indicated, data are for net production of anthracite and bituminous coal.<sup>b</sup> Twelve months ending 30 June of the stated year.<sup>c</sup> Including brown coal.<sup>d</sup> Excluding data for Northern Ireland.<sup>e</sup> Including low-quality coal at its hard-coal equivalent.<sup>f</sup> Raw production. Including a negligible amount of brown coal.

Table 89

## Brown Coal and Lignite Production

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
OECD	111	155	166	190	202	210	236	229	240	255	266
United States	2.49	4.56	7.21	12.88	14.06	17.71	22.83	26.24	30.89	37.74	42.03
Australia	15.21	20.99	24.18 <sup>a</sup>	24.68 <sup>a</sup>	27.30 <sup>a</sup>	28.18 <sup>a</sup>	30.94 <sup>a</sup>	29.27 <sup>a</sup>	32.87 <sup>a</sup>	32.54 <sup>a</sup>	32.89 <sup>a</sup>
Austria	5.97	5.45	3.67	3.63	3.63	3.40	3.22	3.13	3.07	2.74	2.88
Canada	1.97	1.87	3.46	3.65	3.48	3.55	4.68	5.48	5.06	5.02	5.98
Greece	2.49	5.09	8.08	13.57	14.40	18.41	22.57	23.57	21.67	23.39	23.62
Spain	1.76	2.77	2.83	3.00	2.88	3.38	4.15	5.81	8.27	10.03	15.81
Turkey	1.91	3.09	4.44	5.73	6.34	7.11	8.25	8.56	9.32	9.35	8.32
European Community	102	108	112	123	130	128	139	127	128	134	134
France	2.28	2.69	2.78	2.76	2.79	3.19	3.19	3.08	2.74	2.46	2.70
West Germany	96.22	101.91	107.77	118.66	126.04	123.38	134.54	122.95	123.59	130.58	129.83
Other Countries											
India	0.05	2.30	3.54	3.32	3.04	2.79	3.90	3.59	3.64	3.26	4.55
Communist Countries											
USSR and Eastern Europe <sup>b</sup>	469	550	587	588	589	602	602	615	622	626	632
USSR	134.21	147.44	144.74	153.47	157.18	160.00	160.00	160.00	163.00	161.00	161.00
Eastern Europe	335	403	442	434	432	442	442	455	459	465	471
Bulgaria	15.42	24.49	28.85	26.46	24.00	27.52	25.18	24.89	25.53	27.73	29.90
Czechoslovakia	57.89	72.33	81.30	81.25	82.16	86.27	89.47	93.24	94.88	96.21	95.73
East Germany	225.47	250.84	261.48	246.25	243.47	246.71	246.90	253.70	253.26	256.06	258.90
Hungary	23.68	27.08	23.68	23.37	22.55	21.87	22.32	22.53	22.72	22.66	23.14
Poland	9.33	22.63	32.77	39.22	39.83	39.87	39.30	40.76	41.01	38.08	36.87
Romania	3.36	5.63	14.13	17.68	19.79	19.77	18.73	19.63	21.85	24.66	26.40
Other											
North Korea <sup>c</sup>	3.80	5.50	5.70	6.60	N.A.	7.60	7.80	8.00	8.40	8.60	N.A.
Yugoslavia	21.43	28.79	27.78	31.87	32.98	34.94	36.26	38.57	39.22	41.68	46.61

<sup>a</sup> Twelve months ending 30 June of the year stated.<sup>b</sup> Net output.<sup>c</sup> Including unknown amounts of hard coal.

Table 90  
Billion Kilowatt-HoursElectricity Production <sup>a</sup>

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
OECD <sup>b</sup>	1,710	2,430	3,520	4,300	4,340	4,400	4,700	4,890	5,090	5,260	5,160
United States <sup>c</sup>	893.72	1,229.64	1,742.73	2,081.23	2,086.28	2,131.06	2,263.21	2,361.71	2,436.01	2,472.14	2,437.82
Of which: Hydro	149.12	196.98	250.70	275.33	303.95	303.15	286.92	223.97	283.83	281.55	276.02
Australia	23.20	36.91	53.89	64.80	69.74	73.93	76.60	82.52	88.52	93.70	97.93
Canada	115.10	146.32	208.34	268.64	285.48	278.74	300.16	323.79	342.69	359.63	374.29
Japan <sup>c</sup>	111.49	188.38	359.54	470.29	459.04	475.79	511.78	532.61	563.99	581.44	519.35
Norway	31.14	48.95	57.61	73.06	76.70	77.48	82.13	79.72	81.11	88.99	83.99
Spain	18.61	31.72	56.49	76.27	80.86	82.38	90.82	93.80	99.54	105.41	110.32
Sweden	34.72	49.11	60.64	78.08	75.13	80.57	86.42	90.02	92.90	94.28	93.58
European Community	423	618	856	1,020	1,030	1,030	1,110	1,130	1,190	1,250	1,240
Belgium	15.15	21.71	30.52	41.07	42.76	41.07	47.35	47.10	50.84	52.26	53.64
France	75.01	105.58	146.97	182.36	188.18	185.31	203.09	210.71	226.69	241.13	242.29
Italy	56.24	82.97	117.42	145.52	148.90	147.33	163.55	166.55	175.04	180.53	185.02
Netherlands	16.52	25.01	40.86	52.63	55.35	54.26	58.14	58.28	61.60	64.45	64.80
United Kingdom	136.97	196.50	249.11	281.87	273.13	271.99	276.88	283.09	287.69	299.86	285.05
West Germany	116.42	172.34	242.61	299.00	311.71	301.80	333.65	335.32	353.42	374.22	368.77
Communist Countries											
USSR and Eastern Europe	406	677	987	1,220	1,290	1,380	1,480	1,530	1,600	1,640	1,710
USSR	292.27	506.67	740.93	914.61	975.75	1,038.61	1,111.42	1,150.07	1,201.90	1,238.20	1,295.00
Of which: Hydro	50.91	81.43	124.38	122.34	132.03	125.99	135.74	147.01	169.70	172.02	177.50
Eastern Europe	114	170	246	301	319	340	364	381	402	404	419
Bulgaria	4.66	10.25	19.52	21.96	22.81	25.24	27.75	29.71	31.49	32.48	34.84
Czechoslovakia	24.46	34.19	45.16	53.47	56.03	59.28	62.75	66.50	69.10	68.09	72.68
East Germany	40.30	53.61	67.65	76.91	80.29	84.51	89.15	92.00	95.96	96.85	98.70
Hungary	7.62	11.18	14.54	17.64	18.98	20.46	22.05	23.40	25.54	24.51	23.88
Poland	29.26	43.77	64.53	84.27	91.60	97.17	104.10	109.36	115.56	117.47	121.86
Romania	7.65	17.22	35.09	46.78	49.06	53.72	58.27	59.86	64.26	64.93	67.50
Other											
Albania	0.19	0.34	0.96	1.55	1.65	1.66	N.A.	1.86	2.08	2.80	N.A.
China	N.A.	63.00	107.00	150.00	164.00	187.00	203.46	223.40	256.55	281.95	300.60
Cuba	2.90	3.56	4.89	5.70	6.02	6.58	7.20	7.69	8.46	9.48	N.A.
North Korea	9.14	13.40	16.50	19.60	22.10	22.00	21.80	20.00	22.00	25.00	24.00
Yugoslavia	8.93	15.52	26.02	35.06	39.46	40.04	43.57	48.58	51.25	54.97	59.44

<sup>a</sup> Data are for total (gross) production at generating centers and therefore include transmission losses and station use (see footnote b).

<sup>b</sup> Data are gross production or estimates of gross production based on reported net, adjusted by increasing by 7.5 percent the thermal electric production to include

<sup>c</sup> Beginning in 1980, data are for public utilities only.

**Table 91**  
**Installed Electricity Generating Capacity <sup>a</sup>**  
Million Kilowatts

	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>OECD</b>											
United States	186.53	254.52	360.33	459.25	495.36	527.35	550.03	579.40	598.50	615.69	630.94
Canada	23.03	29.35	42.83	54.38	57.53	61.35	65.99	70.58	74.62	N.A.	N.A.
Japan <sup>b</sup>	23.64 <sup>c</sup>	38.06	59.48	85.30	95.50	104.21	112.28	116.87	122.35	131.22	137.94
Norway	6.61	9.92	12.91	15.44	16.39	16.93	17.16	17.56	18.05	18.71	N.A.
Spain	6.57	10.17	17.91	23.20	24.32	25.76	26.59	27.55	28.28	N.A.	N.A.
Sweden	8.96	12.04	15.31	19.46	20.77	23.14	24.01	24.73	25.69	25.77	N.A.
<b>European Community</b>											
France	21.17 <sup>d</sup>	26.97 <sup>d</sup>	36.22	43.09	44.62	46.29	48.41	52.45	54.57	56.43	N.A.
Italy	16.31 <sup>d</sup>	23.82 <sup>d</sup>	30.41	36.51	38.34	39.10	40.66	42.58	43.50	N.A.	N.A.
Netherlands	5.18	7.29	10.11	12.46	12.99	15.45	15.54	17.22	18.34	N.A.	N.A.
United Kingdom	36.60 <sup>d</sup>	49.29 <sup>d</sup>	62.06	72.65	74.11	73.92	72.81	72.67	72.79	74.34	N.A.
West Germany	28.38 <sup>d</sup>	40.60 <sup>d</sup>	47.54	58.50	66.17	70.11	77.05	83.58	80.76	82.52	N.A.
<b>Communist Countries</b>											
<b>USSR and Eastern Europe</b>											
USSR	66.72	115.03	166.15	195.56	205.44	217.48	228.31	237.81	245.44	255.28	268.00
<b>Eastern Europe</b>											
Bulgaria	0.92	2.16	4.12	5.11	6.17	7.06	7.21	7.25	7.90	7.99	8.20
Czechoslovakia	5.72	8.21	10.81	12.12	12.81	13.64	14.55	15.12	16.09	16.37	16.80
East Germany	7.84	10.31	12.57	15.04	15.91	16.93	17.47	17.88	18.87	19.44	19.90
Hungary	1.48	2.00	2.75	3.23	3.74	4.29	4.67	5.20	5.54	5.24	5.50
Poland	6.32	9.67	13.89	17.73	19.13	20.06	20.48	21.75	23.83	24.79	25.50
Romania	1.78	3.26	7.35	10.12	10.58	11.58	12.32	13.63	14.15	15.60	16.00
<b>Other</b>											
Cuba <sup>c</sup>	0.94	0.96	1.30	1.30	1.32	1.40	1.40	1.45	1.90	2.17	N.A.
North Korea	1.88	2.12	3.38	4.00	4.50	4.60	4.80	5.20	5.30	5.40	N.A.
Yugoslavia	2.40	3.73	6.97	8.65	8.88	9.43	9.95	11.10	12.08	12.70	13.00

<sup>a</sup> All plants for both public and industrial use. Unless otherwise indicated, data are as of the end of the year.

<sup>b</sup> Data are for the year beginning 1 April of the stated year.

<sup>c</sup> Capacity as of 31 March 1961.

<sup>d</sup> Gross capacity.

<sup>e</sup> Including 410,000-kW capacity in industrial plants not linked to the national grid system.

**Table 92** Thousand Megawatts**Installed Nuclear Electric Generating Capacity <sup>a</sup>**

	1960	1970	1974	1975	1976	1977	1978	1979	1980
OECD	0.9	14.3	49.2	62.7	72.0	84.3	93.3	107	113
United States	0.4	6.0	29.4	37.4	40.8	47.6	50.1	51.3	52.2
Canada	0	0.2	2.5	2.5	2.5	4.0	4.8	5.5	5.5
Japan	0	0.8	3.7	5.0	7.1	7.6	11.0	14.5	14.5
Finland	0	0	0	0	0	0.4	0.4	1.1	1.1
Spain	0	0.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Sweden	0	Negl.	1.0	2.4	3.2	3.7	3.7	3.7	4.6
Switzerland	0	0.4	1.0	1.0	1.0	1.0	1.0	1.9	1.9
European Community	0.5	6.7	10.5	13.3	16.3	18.9	21.2	27.5	32.1
Belgium	0	Negl.	Negl.	1.7	1.7	1.7	1.7	1.7	1.7
France	0.1	1.7	2.9	2.9	2.9	2.9	4.7	8.3	12.9
Italy	0	0.6	0.6	0.6	0.6	0.6	1.4	1.4	1.4
Netherlands	0	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
United Kingdom	0.4	3.4	4.3	4.3	5.7	7.0	7.0	7.0	7.0
West Germany	Negl.	0.9	2.2	3.3	4.9	6.2	5.9	8.6	8.6
Other Countries									
Argentina	0	0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
India	0	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Pakistan	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
South Korea	0	0	0	0	0	0	0.6	0.6	0.6
China (Taiwan)	0	0	0	0	0	0	0.6	1.2	1.2
Communist Countries									
USSR and Eastern Europe	Negl.	1.0	4.8	6.8	8.3	9.3	11.2	12.9	15.9
USSR	Negl.	0.9	3.8	4.8	6.3	7.3	8.3	10.2	12.3
Eastern Europe	0	0.1	1.0	2.0	2.0	2.0	2.9	2.7	3.6
Bulgaria	0	0	0.4	0.9	0.9	0.9	0.9	0.9	0.9
Czechoslovakia	0	0	0.1	0.1	0.1	0.1	0.6	0.4	0.9
East Germany	0	0.1	0.5	1.0	1.0	1.0	1.4	1.4	1.8

<sup>a</sup> Data are as of the end of the year and presented on a net basis except for Communist countries which are gross capacities.



Table 93

Iron Ore Production <sup>a</sup>

Million Metric Tons

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD <sup>b</sup>									
United States <sup>c</sup>	90.21	88.84	91.20	80.13	79.99	55.75	82.78	86.50	69.30
Australia	4.40	6.80	51.20 <sup>d</sup>	97.65 <sup>d</sup>	93.26 <sup>d</sup>	95.92 <sup>d</sup>	83.49 <sup>d</sup>	86.40 <sup>d</sup>	81.30 <sup>d</sup>
Canada <sup>e</sup>	19.55	36.25	47.46	46.90	56.93	55.40	42.93	59.62	50.87
Sweden	21.69	29.48	31.51	30.90	29.86	24.84	21.49	26.62	24.00
European Community	112	93.3	80.9	60.4	54.8	44.9	40.5	38.4	35.6
France	66.91	59.52	56.80	49.65	45.18	36.63	33.46	31.63	29.00
Luxembourg	6.98	6.32	5.72	2.32	2.08	1.54	0.84	0.63	0.60
United Kingdom	17.36	15.66	12.02	4.49	4.58	3.74	4.24	4.28	4.20
West Germany	18.90	10.80	5.53	3.29	2.46	2.47	1.60	1.65	1.60
Other Countries <sup>f</sup>									
Brazil	9.35	20.75	40.20	89.90	94.09	82.00	84.92	95.95	96.00
India	10.70	23.80	31.37	41.41	43.87	42.60	38.84	39.53	43.00
Liberia	3.10	16.00	23.70	24.00	21.80	20.40	18.80	18.06	18.00
Venezuela	19.49	17.51	22.10	24.77	18.69	13.68	13.52	16.35	16.50
Communist Countries									
USSR and Eastern Europe	115	165	208	244	250	250	254	249	252
USSR	105.86	153.43	197.14	234.70	241.11	241.89	246.25	241.74	245.00
Eastern Europe	9.34	12.0	10.8	9.13	8.44	7.97	8.11	7.48	7.07
Bulgaria	0.42	1.80	2.41	2.34	2.32	2.27	2.45	2.10	1.90
Czechoslovakia	3.12	2.45	1.61	1.77	1.90	1.99	2.02	2.01	1.93
East Germany	1.64	1.63	0.42	0.06	0.06	0.06	0.07	0.06	0.06
Hungary	0.52	0.76	0.63	0.64	0.60	0.52	0.53	0.53	0.43
Poland	2.18	2.86	2.55	1.25	0.72	0.66	0.53	0.25	0.20
Romania	1.46	2.48	3.21	3.07	2.84	2.47	2.51	2.53	2.55
Other									
Albania	0.25	0.40	0.40	0.47	0.55	0.60	0.65	0.70	0.75
China	100.00	38.30	72.30	109.00	105.00	89.00	117.80	119.30	120.00
North Korea	2.50	4.96	6.50	N.A.	N.A.	6.00	7.00	7.00	N.A.
Yugoslavia	2.20	2.50	3.69	5.24	4.26	4.45	4.56	4.62	4.53

<sup>a</sup> Unless otherwise indicated, data are for the gross amount of marketable iron ores in the state in which they leave the mines, including manganese ores but excluding pyrites.

<sup>b</sup> The metal content of the ore in the OECD countries follows: United Kingdom and West Germany, 28-31 percent; Luxembourg, 25 percent; France, 32 percent; United States and Canada, 61-62 percent; and Australia and Sweden, 60-65 percent.

<sup>c</sup> Excluding manganese iron ore containing 5 percent or more of manganese.

<sup>d</sup> Twelve months ending 30 June of the stated year.

<sup>e</sup> Shipments.

<sup>f</sup> The metal content of the ore in the other countries ranges from 60 percent to 68 percent.



**Table 94** Thousand Metric Tons**Manganese Ore Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>b</sup>	73	27	4	0	0	0	0	0	0
Australia	62	102	751	1,560	2,154	1,384	1,248	1,666	1,750
Italy	49	48	50	0	4	9	10	9	9
Japan	324	303	270	158	142	126	104	88	78
<b>Other Countries</b>									
Brazil	999	1,400	1,880	2,160	1,696	1,516	1,917	1,900	2,000
Gabon	0	1,280	1,450	2,240	2,282	1,929	1,754	2,300	2,302
Ghana <sup>c</sup>	545	604	405	409	312	292	316	272	250
India	1,200	1,650	1,650	1,580	1,835	1,865	1,619	1,755	1,900
South Africa	1,190	1,570	2,680	5,770	5,452	5,048	4,317	5,183	4,743
<b>Communist Countries</b>									
USSR and Eastern Europe	6,350	8,040	7,230	8,340	N.A.	N.A.	9,240	10,400	10,200
USSR	5,872	7,576	6,841	8,459	8,636	8,595	9,057	10,244	10,000
Eastern Europe	477	461	390	278	N.A.	N.A.	182	179	187
Bulgaria	25	42	33	35	40	40	40	42	49
Hungary	123	213	169	131	116	120	114	95	90
Romania	175	126	102	112	N.A.	N.A.	28	42	48
<b>Other</b>									
Yugoslavia	13	8	15	17	19	25	27	25	30

<sup>a</sup> The metal content of the ore of various countries is as follows: the United States, more than 35 percent; other non-Communist countries and Cuba, 30-53 percent; the USSR, about 35 percent; Yugoslavia, about 35 percent; Romania, 30 percent; Bulgaria, about 27 percent; and Hungary, 26 percent.

<sup>b</sup> Shipments.

<sup>c</sup> Dry weight.

Table 95

Metric Tons

Tungsten Ore Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States <sup>b</sup>	3,160	3,430	4,220	2,490	2,660	2,730	3,130	3,015	2,722
Australia	1,900	950	1,260	1,498	1,989	2,358	2,681	3,193	2,855
Austria	110	90	80	360	541	1,116	1,179	1,496	1,600
Canada <sup>b</sup>	0	1,340	1,340	1,170	1,720	1,812	2,289	2,581	3,688
France	340	0	80	620	633	653	608	590	600
Japan	470	340	850	770	810	770	750	770	N.A.
Portugal	1,390	780	1,080	1,420	1,588	1,267	1,092	1,737	1,750
Spain	440	20	410	350	329	341	451	450	400
Turkey	0	0	0	0	10	10	15	130	N.A.
Other Countries									
Bolivia	1,020	870	1,840	2,570	3,182	2,955	2,852	2,647	3,359
Brazil	810	180	1,160	1,130	962	1,212	1,055	1,000	1,100
Burma	470	160	220	490	276	278	471	692	753
Mexico	90	90	290	280	230	190	230	195	N.A.
Peru	230	380	800	580	591	526	582	564	550
Rwanda	230	130	180	350	430	450	390	390	N.A.
South Korea	2,730	2,130	2,070	2,400	2,587	2,634	2,681	2,713	2,569
Thailand	210	260	710	1,640	2,050	2,204	3,187	1,826	1,625
Communist Countries									
USSR	5,400	6,660	6,900	8,100	8,300	8,500	8,800	9,000	9,200
China	13,990	8,140	5,470	6,710	5,660	6,470	8,660	10,130	N.A.

<sup>a</sup> Data are for the estimated tonnage of contained tungsten.<sup>b</sup> Shipments.

**Table 96** Thousand Metric Tons**Chromite Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
Finland	0	0	121	331	143	145	161	152	150
Greece	31	51	26	35	34	41	40	55	62
Japan	68	42	33	24	22	18	9	12	13
Turkey	481	567	519	717	580	508	375	450	400
<b>Other Countries</b>									
Brazil	5	24	28	173	186	310	270	270	349
India	101	60	271	500	402	352	266	309	300
Iran	68	129	200	172	160	233	198	136	80
Madagascar	0	2	131	194	221	165	138	128	150
Philippines	735	555	566	520	431	539	537	561	644
South Africa	772	942	1,427	2,078	2,409	3,059	3,145	3,297	3,450
Zimbabwe	606	586	363	590	864	677	478	542	554
<b>Communist Countries <sup>b</sup></b>									
USSR	1,200	2,500	3,000	3,500	3,500	3,400	3,300	3,200	3,400
Albania	289	312	466	779	833	880	1,010	1,015	1,020
Cuba	10	14	8	13	7	7	10	10	N.A.
Yugoslavia	101	80	41	2	2	2	2	2	2

<sup>a</sup> Data are in gross weight.<sup>b</sup> Production of chrome ore. In the Communist countries, the chromic oxide content is estimated as follows: USSR, 46 percent; Albania, 45 percent; Cuba, 35 percent; and Yugoslavia, 26 percent.

Table 97  
Thousand Metric Tons

## Bauxite Production

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	5,370	7,060	16,900	29,000	31,500	33,600	31,100	34,800	33,900
United States	2,030	1,680	2,120	1,800	1,989	2,013	1,669	1,821	1,617
Australia	70	1,190	9,260	21,000	24,084	26,086	24,293	27,583	27,000
Greece	884	1,270	2,290	3,010	2,551	2,882	2,664	2,915	2,950
European Community	2,380	2,910	3,220	2,600	2,350	2,100	2,010	2,160	1,980
France	2,070	2,660	2,990	2,560	2,330	2,059	1,990	2,134	1,950
Other Countries									
Guinea	1,378	1,870	2,490	8,400	10,848	10,841	10,456	13,700	14,000
Guyana	2,511	2,919	4,417	3,251	2,686	2,731	2,425	2,312	2,348
Jamaica	5,840	8,650	12,000	11,600	10,296	11,433	11,777	11,505	12,200
Suriname	3,460	4,360	6,020	4,930	4,613	4,805	5,188	5,010	4,696
Communist Countries									
USSR and Eastern Europe	4,380	6,790	8,970	11,200	11,500	11,800	12,100	12,400	12,500
USSR <sup>a</sup>	3,100	5,300	6,700	8,000	8,200	8,500	8,800	9,000	9,100
Eastern Europe	1,280	1,490	2,270	3,240	3,300	3,340	3,290	3,420	3,400
Hungary	1,190	1,477	2,022	2,890	2,918	2,949	2,899	2,976	2,950
Romania	88	12	250	350	380	390	395	440	450
Other									
China <sup>b</sup>	640	1,120	1,500	2,800	3,000	3,200	3,200	3,320	3,320
Yugoslavia	1,025	1,574	2,098	2,306	2,003	2,044	2,566	3,012	3,138

<sup>a</sup> Including nonbauxite ore such as nepheline and alunite for the production of alumina.

<sup>b</sup> Data are for aluminous shales and clays used for the manufacture of aluminum and exclude shales exported and those used for refractories, abrasives, and cement.

**Table 98** Million Metric Tons**Metallurgical Coke Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD <sup>b</sup></b>									
United States	51.92	60.65	60.35	51.90	52.92	48.13	44.17	48.00	42.00
Australia	2.68	3.10	4.98	5.24	5.31	4.67	5.00	8.14	8.20
Canada <sup>c</sup>	3.51	3.96	5.14	5.28	5.29	4.91	4.97	5.78	5.20
Japan	8.55	15.78	37.74	44.80	43.45	43.00	40.55	43.12	44.00
European Community	<b>93.2</b>	<b>91.4</b>	<b>90.5</b>	<b>78.2</b>	<b>73.2</b>	<b>65.5</b>	<b>63.5</b>	<b>64.5</b>	<b>N.A.</b>
Belgium	7.52	7.33	7.12	5.73	6.22	5.57	5.75	6.27	6.20
France <sup>c</sup>	13.64	13.41	14.15	10.99	11.31	10.77	10.68	11.60	12.00
Italy	3.72	5.74	7.04	8.11	7.97	7.68	7.32	7.30	7.40
Netherlands <sup>c</sup>	4.52	4.28	2.00	2.68	2.81	2.50	2.40	2.53	2.50
United Kingdom	19.14	17.38	20.28	15.86	12.95	11.52	9.88	10.26	<b>N.A.</b>
West Germany <sup>d</sup>	44.68	43.29	39.91	34.82	31.95	27.50	27.46	26.50	26.00
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>68.1</b>	<b>81.0</b>	<b>88.4</b>	<b>98.5</b>	<b>99.8</b>	<b>103</b>	<b>104</b>	<b>104</b>	<b>N.A.</b>
USSR	51.48	61.74	68.72	75.65	76.70	78.46	78.85	79.20	<b>N.A.</b>
Eastern Europe	<b>16.6</b>	<b>19.3</b>	<b>19.7</b>	<b>22.8</b>	<b>23.1</b>	<b>24.7</b>	<b>25.3</b>	<b>24.3</b>	<b>N.A.</b>
Bulgaria	0.02	0.68	0.77	1.24	1.27	1.30	1.27	1.22	1.21
Czechoslovakia	6.82	7.87	8.28	9.24	9.00	8.80	8.79	8.54	8.45
East Germany	0.74	0.94	0.53	0.56	0.69	0.65	0.63	0.63	<b>N.A.</b>
Hungary <sup>c</sup>	0.50	0.64	0.66	0.59	0.60	0.59	0.60	0.65	0.67
Poland	7.68	7.99	8.37	8.93	9.10	10.21	10.52	10.20	10.10
Romania	0.82	1.14	1.07	2.28	2.47	3.15	3.46	3.07	3.20
Other									
China	<b>N.A.</b>	10.10	16.20	24.20	20.50	23.10	32.37	33.55	34.05
Yugoslavia	1.08	1.25	1.31	1.35	1.79	1.77	2.07	2.49	2.63

<sup>a</sup> Unless otherwise indicated, data are for oven and beehive coke and exclude<sup>d</sup> Including electrode coke but excluding low-temperature coke.<sup>e</sup> A large part of this coke is produced in gas plants and is used with high-quality coke in charging blast furnaces.<sup>b</sup> Net production, excluding coke consumed by coking plants.<sup>c</sup> Including breeze coke.

Table 99

## Pig Iron Production

	1960 <sup>a</sup>	1965 <sup>a</sup>	1970	1975	1976	1977	1978	1979	1980
OECD									
United States	62.2	82.6	83.0	72.5	78.8	73.4	79.6	78.9	62.3
Australia	2.9	4.4	6.2	7.5	7.4	6.8	7.3	7.8	7.0
Canada	4.0	6.6	8.3	9.2	9.8	9.7	10.3	10.9	10.9
Japan	12.3	28.0	68.0	86.9	86.6	85.9	78.6	83.8	87.8
Spain	1.9	2.4	4.2	6.8	6.6	6.6	6.3	6.5	6.7
European Community	70.9	81.8	97.3	88.3	93.5	86.6	89.4	97.5	94.4
Belgium	6.5	8.3	10.8	9.1	9.9	8.9	10.3	10.8	10.0
France	14.4	15.8	18.7	17.5	18.7	17.9	18.1	19.0	18.6
Italy	2.8	5.6	8.3	11.4	11.6	11.4	11.3	11.3	11.5
United Kingdom	16.0	17.8	17.5	12.2	13.7	12.1	11.4	12.9	6.6
West Germany	25.8	27.0	33.4	29.9	31.6	28.8	29.9	34.9	33.8
Other Countries									
Brazil	1.8	2.4	4.2	7.1	8.4	9.7	10.3	11.9	12.9
India	4.3	7.2	7.1	8.3	9.7	9.8	9.4	8.7	8.5
South Africa	2.0	3.6	3.9	5.2	5.7	5.8	6.0	7.0	7.2
Communist Countries									
USSR and Eastern Europe	60.2	84.1	110	133	136	141	146	145	143
USSR	46.8	66.2	85.9	103.0	105.4	107.4	110.7	109.0	107.0
Eastern Europe	13.4	17.9	23.9	30.0	31.1	33.7	35.7	35.8	36.1
Bulgaria	0.2	0.7	1.3	1.6	1.6	1.6	1.5	1.5	1.6
Czechoslovakia	4.7	5.9	7.6	9.3	9.5	9.7	9.9	9.5	9.8
East Germany	2.0	2.3	2.0	2.5	2.5	2.6	2.6	2.4	2.5
Hungary	1.2	1.6	1.8	2.2	2.2	2.3	2.3	2.4	2.2
Poland	4.2	5.4	7.0	7.8	7.9	9.7	11.2	11.1	10.9
Romania	1.0	2.0	4.2	6.6	7.4	7.8	8.2	8.9	9.1
Other									
China	27.5	13.8	22.0	33.8	28.8	25.0	34.8	36.7	38.0
North Korea	0.9	1.3	1.8	3.4	3.4	3.4	3.5	3.9	N.A.
Yugoslavia	1.0	1.1	1.3	2.1	1.9	1.9	2.1	2.4	2.4

<sup>a</sup> Including ferroalloys.

**Table 100** Million Metric Tons**Crude Steel Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>b</sup>	90.1	119.3	119.3	105.8	116.1	113.7	124.3	123.7	101.5
Australia <sup>c</sup>	3.7	5.4	6.8	7.8	7.8	7.3	7.6	8.1	7.6
Canada	5.3	9.2	11.2	13.0	13.3	13.6	14.9	15.9	15.7
Japan	22.1	41.2	93.3	102.3	107.4	102.4	102.1	111.7	111.4
Spain	1.9	3.5	7.4	11.2	11.0	11.1	11.6	12.3	11.4
Sweden	3.2	4.7	5.5	5.6	5.1	4.0	4.3	4.7	4.7
European Community	<b>97.6</b>	<b>114</b>	<b>138</b>	<b>126</b>	<b>134</b>	<b>126</b>	<b>133</b>	<b>140</b>	<b>128</b>
Belgium	7.2	9.2	12.6	11.6	12.1	11.3	12.6	13.4	12.3
France	17.1	19.3	23.8	21.5	23.2	22.1	22.8	23.4	23.2
Italy	8.3	12.7	17.3	21.8	23.4	23.3	24.3	24.2	26.5
United Kingdom	24.7	27.5	28.3	20.2	22.3	20.4	20.3	21.5	11.3
West Germany	34.1	36.8	45.0	40.4	42.4	40.0	41.3	46.0	43.8
<b>Other Countries</b>									
Brazil <sup>d</sup>	2.3	3.0	5.4	8.3	9.2	11.2	12.1	13.8	15.3
India	3.3	6.4	6.1	7.1 <sup>e</sup>	9.3	9.9	10.0	9.5	10.0
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>86.4</b>	<b>120</b>	<b>156</b>	<b>193</b>	<b>199</b>	<b>204</b>	<b>211</b>	<b>209</b>	<b>210</b>
USSR	65.3	91.0	115.9	141.3	144.7	146.7	151.5	149.0	148.0
Eastern Europe	<b>21.2</b>	<b>28.5</b>	<b>39.8</b>	<b>51.3</b>	<b>53.9</b>	<b>57.5</b>	<b>59.8</b>	<b>60.3</b>	<b>61.6</b>
Bulgaria	0.2	0.6	1.8	2.3	2.5	2.6	2.5	2.5	2.6
Czechoslovakia	6.8	8.6	11.5	14.3	14.7	15.1	15.3	14.8	15.2
East Germany	3.8	4.3	5.0	6.5	6.7	6.8	7.0	7.0	7.3
Hungary	1.9	2.5	3.1	3.7	3.6	3.7	3.9	3.9	3.8
Poland	6.7	9.1	11.8	15.0	15.6	17.8	19.3	19.2	19.5
Romania	1.8	3.4	6.5	9.6	10.7	11.5	11.8	12.9	13.2
<b>Other</b>									
China	18.7	12.2	17.8	24.0	20.5	23.7	31.8	34.5	37.1
Cuba	N.A.	Negl.	0.1	0.3	0.2	0.3	0.3	0.3	N.A.
North Korea	0.6	1.2	2.2	2.6	2.7	2.7	3.4	4.0	4.0
Yugoslavia	1.4	1.8	2.2	2.9	2.8	3.2	3.5	3.5	3.6

<sup>a</sup> Data are for ingots and steel for castings.<sup>b</sup> Excluding steel for castings made in foundries operated by companies not producing ingots.<sup>c</sup> Twelve months ending 30 June of the stated year.<sup>d</sup> Excluding alloy steel.<sup>e</sup> Ingots only.

Table 101

## Rolled Steel Production

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States <sup>a</sup>	69.35	90.09	82.37	72.54	81.14	82.69	88.85	90.96	76.07
Canada <sup>a</sup>	4.13	6.72	8.24	7.11	7.23	7.63	8.71	9.11	N.A.
Japan	17.20	33.38	76.03	86.28	93.21	90.67	91.39	101.61	N.A.
Spain <sup>a</sup>	1.27	3.16	5.46	8.94	9.42	9.34	9.60	9.75	N.A.
European Community	76.7	89.6	111	98.6	106	104	110	116	N.A.
Belgium	5.88	7.72	10.26	9.10	9.56	9.36	10.49	11.55	N.A.
France	13.70	15.72	18.73	17.56	19.46	19.33	20.61	20.80	N.A.
Italy	7.78	10.62	14.76	15.41	16.97	17.41	18.00	18.55	N.A.
United Kingdom	18.41	20.76	22.18	15.57	17.10	16.51	16.35	16.69	N.A.
West Germany	25.84	28.48	35.97	32.98	34.22	33.05	35.14	38.49	N.A.
Communist Countries									
USSR and Eastern Europe	57.8	81.3	109	137	142	145	151	150	N.A.
USSR	43.68	61.65	80.65	98.69	101.44	102.14	105.43	103.24	103.00
Eastern Europe	14.1	19.7	28.0	38.3	40.4	42.8	45.7	46.5	N.A.
Bulgaria	0.19	0.43	1.42	2.50	2.76	2.95	3.05	3.13	3.22
Czechoslovakia	4.48	6.09	7.94	10.03	10.39	10.59	10.79	10.78	10.76
East Germany	2.61	2.99	3.97	5.22	5.61	5.87	6.11	6.30	N.A.
Hungary	1.19	1.70	2.04	2.68	2.86	3.08	3.19	3.24	3.05
Poland	4.42	6.13	8.14	11.08	11.50	11.95	13.56	13.57	13.55
Romania	1.25	2.35	4.50	6.81	7.30	8.39	8.96	9.48	9.60
Other									
China	11.30	9.10	13.40	16.80	14.70	16.00	22.08	24.97	27.16
Yugoslavia	0.97	1.19	1.77	2.36	2.44	3.33	4.14	4.14	4.24

<sup>a</sup> Steel mill products.



**Table 102** Thousand Metric Tons**Refined Nickel Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States	11.4	12.3	14.1	21.2	30.8	34.4	33.8	37.5	40.8
Australia	0	0	1.0	34.0	39.9	34.1	37.3	39.3	40.3
Canada	127.5	160.4	189.3	157.8	168.3	152.0	89.2	88.8	145.8
Greece	0	0	8.6	14.8	16.4	9.6	15.1	18.9	25.0
Japan	18.7	26.5	89.9	78.0	94.8	93.9	79.2	101.0	104.0
Norway	30.4	31.8	38.5	37.1	32.7	38.2	23.7	30.6	31.0
European Community	47.3	49.0	49.0	48.2	45.5	33.6	30.2	23.2	34.0
France <sup>b</sup>	10.0	8.2	11.0	10.9	12.3	10.3	7.8	3.3	10.0
United Kingdom	34.3	40.5	36.7	37.3	33.1	23.2	21.4	18.9	23.0
Other Countries									
Dominican Republic	0	0	0	30.0	24.4	24.9	14.3	25.1	14.0
New Caledonia	11.4	15.6	27.9	52.8	38.2	28.3	19.9	30.4	32.6
Communist Countries <sup>c</sup>									
USSR	72.0	100.0	137.0	195.0	215.0	220.0	230.0	235.0	235.0
Cuba <sup>d</sup>	12.8	28.2	36.6	37.3	37.1	36.7	34.8	32.3	N.A.

<sup>a</sup> Unless otherwise indicated, data are for refined metal and the nickel content of ferronickel and nickel oxide.

<sup>b</sup> Excluding data for New Caledonia.

<sup>c</sup> Czechoslovakia and East Germany each produce a small amount of refined nickel.

<sup>d</sup> Nickel content of oxides and sulfides.

Table 103  
Thousand Metric TonsRefined Copper Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States	1,642	1,957	2,065	1,622	1,737	1,707	1,869	2,014	1,755
Australia	84	95	146	192	188	183	174	173	180
Canada	378	394	493	529	510	509	446	397	509
Japan	248	366	705	819	864	934	959	984	1,014
Spain	42	59	83	130	140	159	147	140	140
European Community	796	904	996	958	1,080	1,090	977	935	972
Belgium	212	280	338	332	425	465	389	369	374
United Kingdom	219	228	205	152	137	122	126	122	163
West Germany	309	342	406	422	447	440	403	383	374
Other Countries									
Chile	226	289	465	534	632	676	749	780	800
Peru	30	40	36	71	136	188	186	231	240
Zaire	145	153	190	226	66	99	103	126	130
Zambia	403	522	581	629	694	648	628	520	615
Communist Countries									
USSR and Eastern Europe	576	840	1,220	1,750	1,800	1,890	1,980	2,030	N.A.
USSR	475	700	1,015	1,320	1,350	1,400	1,460	1,500	1,520
Eastern Europe	101	140	204	428	449	489	515	534	N.A.
Bulgaria	14	24	38	50	53	53	55	60	63
Czechoslovakia	10	12	17	23	22	23	24	31	26
East Germany	40	40	40	50	50	50	50	50	N.A.
Hungary	8	12	12	13	14	15	15	16	16
Poland	22	37	72	249	270	307	332	336	357
Romania	7	15	25	43	40	41	39	41	40
Other									
Albania	1	4	6	7	8	8	9	10	12
China	90	200	290	300	300	300	300	320	320
Cuba <sup>b</sup>	N.A.	6	Negl	3	3	3	3	3	N.A.
Yugoslavia	35	56	89	138	136	117	140	138	131

<sup>a</sup> Data are for primary and secondary refined copper produced from domestic and imported ores and scrap.<sup>b</sup> Copper concentrate.

**Table 104** Thousand Metric Tons**Primary Aluminum Production**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	1,830	2,500	3,607	3,520	3,856	4,118	4,358	4,557	4,654
Australia	12	87	206	214	232	248	263	270	303
Canada	691	753	972	887	633	973	1,048	860	1,065
Greece	N.A.	N.A.	91	136	134	130	144	141	141
Japan	133	294	733	1,013	919	1,188	1,057	1,010	1,091
Norway <sup>a</sup>	171	276	522	595	618	628	640	673	660
Spain	29	52	120	210	211	211	212	260	380
European Community	520	735	952	1,820	1,880	1,990	2,010	2,030	2,040
France	238	340	381	383	385	399	391	395	432
Italy	84	124	147	190	206	260	271	269	270
Netherlands	0	0	75	258	256	241	261	259	264
United Kingdom <sup>a</sup>	29	36	40	308	335	349	346	359	343
West Germany	169	234	309	678	697	742	740	742	730
<b>Other Countries</b>									
Ghana	0	0	113	143	151	153	111	168	170
India	18	62	161	167	210	184	205	212	160
<b>Communist Countries</b>									
USSR and Eastern Europe	751	1,150	1,850	2,610	2,700	2,750	2,810	2,890	N.A.
USSR	620	970	1,490	2,130	2,220	2,270	2,330	2,410	2,530
Eastern Europe	131	176	359	480	476	481	481	483	N.A.
Czechoslovakia	20	26	31	43	36	37	37	37	38
East Germany	35	45	56	60	60	60	60	60	N.A.
Hungary	50	58	66	70	70	71	71	72	73
Poland	26	47	99	103	103	104	100	97	95
Romania <sup>b</sup>	0	0	107	204	207	209	213	217	241
<b>Other</b>									
China	80	140	188	357	375	400	400	415	415
Yugoslavia	25	39	48	168	198	197	196	190	185

<sup>a</sup> Including the pure content of virgin alloys.<sup>b</sup> Including aluminum alloys.

Table 105  
Thousand Metric TonsSmelter Production of Lead <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>b</sup>	347	379	605	577	592	549	565	576	550
Australia <sup>c</sup>	247	227	351	311	343	337	356	385	361
Canada	145	169	186	172	176	187	194	184	151
Japan	69	103	178	152	158	170	186	180	185
Spain	71	54	76	73	73	85	83	87	88
Sweden	45	40	41	38	49	52	46	47	47
European Community	365	397	437	384	410	426	414	391	398
Belgium <sup>d</sup>	93	111	89	106	106	104	104	80	90
France	74	98	120	102	118	127	126	129	130
Italy	42	45	54	33	46	34	31	27	28
United Kingdom <sup>e</sup>	16	23	44	26	17	35	30	32	30
West Germany	140	104	113	92	101	105	105	103	100
<b>Other Countries</b>									
Mexico	186	154	150	173	190	154	166	173	168
Peru	74	87	72	71	74	79	74	86	87
<b>Communist Countries</b>									
USSR and Eastern Europe	404	549	676	783	814	841	849	849	N.A.
USSR	300	385	470	540	560	575	580	585	600
Eastern Europe	104	164	206	243	254	266	269	264	N.A.
Bulgaria	40	93	99	110	112	120	120	120	120
Czechoslovakia	12	15	18	18	19	19	19	19	20
Poland <sup>f</sup>	40	41	54	76	81	85	87	84	N.A.
Romania <sup>f</sup>	12	15	35	39	42	42	43	41	40
Other									
Yugoslavia	89	102	97	126	111	128	117	111	102

<sup>a</sup> Unless otherwise indicated, data are for smelter production of lead produced from domestic and imported ores and concentrates, excluding all metal produced from scrap (secondary metals).

<sup>b</sup> Excluding refined lead produced from imported base bullion.

<sup>c</sup> Including lead bullion.

<sup>d</sup> Including secondary metal, remelted lead, and alloys.

<sup>e</sup> Lead bullion from imported ores and concentrates.

<sup>f</sup> Probably including some secondary metal.

**Table 106** Thousand Metric Tons**Refined Zinc Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	2,210	2,780	3,540	3,180	3,520	3,600	3,610	3,990	3,770
United States <sup>b</sup>	788	978	866	450	515	454	441	525	350
Australia	122	202	264	200	249	256	295	310	306
Canada	237	326	418	427	472	495	495	580	586
Finland	0	0	56	110	111	138	133	147	140
Japan	180	318	676	722	776	805	793	816	782
Spain	47	54	88	138	161	153	177	186	190
European Community	783	842	1,090	1,050	1,150	1,210	1,180	1,320	1,320
Belgium	248	238	232	218	241	258	240	262	255
France	146	192	224	181	233	238	231	249	250
Italy	85	81	142	180	191	169	177	203	203
Netherlands	36	42	47	124	141	109	135	154	155
United Kingdom	76	107	147	53	42	81	74	77	75
West Germany	192	182	301	295	305	355	325	377	382
Communist Countries									
USSR and Eastern Europe	577	770	1,030	1,210	1,240	1,250	1,260	1,250	N.A.
USSR <sup>c</sup>	360	475	690	820	840	860	875	890	900
Eastern Europe	217	295	340	393	398	386	380	364	N.A.
Bulgaria	17	66	76	86	93	90	92	92	N.A.
East Germany	4	14	15	15	15	16	16	17	N.A.
Poland	176	190	209	243	237	228	222	209	215
Romania	20	25	40	49	53	52	50	46	44
Other									
Yugoslavia	36	46	65	98	96	99	92	99	99

<sup>a</sup> Data are for electrolytic and distilled (including redistilled) zinc produced from domestic and imported ores and scrap and other secondary materials.

<sup>b</sup> Including production from secondary smelters.

<sup>c</sup> Primary metal only.

**Table 107** Thousand Metric Tons**Titanium Sponge Metal Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States <sup>b</sup>	4.8	8.2	13.9	14.4	9.2	12.5	16.0	20.0	N.A.
Japan	2.3	4.8	9.2	7.6	6.4	6.4	9.2	13.2	18.9
Communist Countries									
USSR	4.5	15.8	31.6	47.4	48.5	50.0	51.3	53.0	56.0

<sup>a</sup> Raw titanium in the form of sponge metal produced from rutile or ilmenite concentrates.

<sup>b</sup> Approximate output based on reports from various trade publications.

**Table 108** Metric Tons**Cobalt Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
Australia	13	91	469	600	545	1,000	1,360	1,540	1,600
Canada	1,970	2,010	2,069	1,354	1,356	1,485	1,234	1,640	1,603
Finland	N.A.	1,493	1,270	1,402	1,278	1,227	1,296	1,162	1,300
Other Countries									
Morocco	1,271	1,832	640	1,961	934	1,015	1,134	961	1,000
Zaire	8,222	8,388	13,958	13,971	11,000	10,200	13,300	15,000	15,500
Zambia	1,847	1,544	2,399	2,900	2,175	1,704	2,063	3,176	3,400
Communist Countries									
USSR	1,600	2,300	3,700	5,000	5,200	5,400	5,600	5,800	6,000
Cuba	N.A.	714	1,208	1,240	1,220	1,220	1,150	1,080	N.A.

<sup>a</sup> Cobalt content of ores mined, unless otherwise indicated.

Table 109											Metric Tons
Smelter Production of Primary Tin <sup>a</sup>											
	1960	1965	1970	1975	1976	1977	1978	1979	1980		
OECD											
United States	13,700	3,150	4,540	6,500	5,730	6,720	5,900	4,600	3,000		
Australia	2,290	3,230	5,210	5,250	5,600	5,560	5,130	5,420	4,690		
Spain	470	1,820	3,910	5,250	5,770	5,340	4,600	4,400	4,500		
European Community	42,500	40,900	33,400	17,800	18,700	19,000	16,800	15,000	13,400		
Belgium	8,390	4,300	4,260	4,560	4,070	3,520	3,300	3,000	3,000		
United Kingdom	26,800	16,800	22,000	11,520	11,160	10,460	8,440	8,020	6,500		
Other Countries											
Bolivia	1,020	3,470	300	7,530	9,790	13,040	16,250	14,950	18,190		
Brazil	N.A.	1,435	3,100	5,400	6,420	7,420	9,310	9,990	9,020		
Indonesia	2,010	1,210	5,190	17,800	23,320	24,000	25,830	27,790	27,900		
Malaysia	77,600	73,600	91,500	83,100	77,300	66,300	71,950	73,070	71,000		
Nigeria	N.A.	9,480	8,070	4,680	3,670	3,320	2,980	2,860	2,000		
Thailand	220	5,610	22,000	16,600	20,340	23,100	28,940	33,060	33,000		
Communist Countries											
USSR	10,600	14,000	21,000	25,000	26,500	28,500	30,000	32,500	32,500		
East Germany	1,000	1,200	1,200	1,200	1,200	1,200	1,300	1,500	N.A.		
China	29,000	12,000	10,000	18,000	11,000	13,000	15,000	17,000	18,000		
<sup>a</sup> Excluding tin derived from scrap or detinning.											

<sup>a</sup> Excluding tin derived from scrap or detinning.

Table 110

## Primary Magnesium Production

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States	36	74	102	109	109	114	136	147	154
Canada	7	9	9	4	6	8	8	9	9
Japan	2	4	10	9	11	9	11	11	9
Norway	10	26	35	38	39	38	39	44	44
European Community									
France	2	3	5	8	8	9	9	9	9
Italy	5	6	8	7	9	9	10	9	9
Communist Countries									
USSR	25	50	80	98	98	100	100	103	104

Table 111

## Gold Production

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States	1.67	1.71	1.74	1.05	1.05	1.10	1.00	0.97	0.93
Australia	1.09	0.88	0.62	0.53	0.50	0.63	0.65	0.60	0.56
Canada	4.63	3.60	2.41	1.65	1.69	1.73	1.74	1.64	1.55
Japan	0.26	0.26	0.26	0.14	0.14	0.15	0.15	0.13	0.10
Other Countries									
Colombia	0.43	0.32	0.20	0.31	0.30	0.26	0.26	0.27	0.28
Ghana	0.89	0.76	0.71	0.52	0.53	0.48	0.40	0.36	0.36
India	0.16	0.13	0.10	0.09	0.10	0.10	0.09	0.08	0.09
Mexico	0.30	0.22	0.20	0.14	0.16	0.21	0.20	0.19	0.20
Nicaragua	0.21	0.20	0.12	0.07	0.06	0.06	0.07	0.06	0.07
Philippines	0.41	0.44	0.60	0.50	0.50	0.58	0.59	0.56	0.64
South Africa	21.38	30.55	32.20	22.94	22.94	22.50	22.65	22.61	21.63
Zaire	0.31	0.09	0.18	0.10	0.09	0.08	0.08	0.07	0.07
Zimbabwe	0.56	0.55	0.44	0.35	0.39	0.40	0.40	0.39	0.37
Communist Countries									
USSR	3.63	5.33	7.00	8.29	8.87	9.19	9.54	9.87	10.20



**Table 112** Thousand Troy Ounces**Platinum-Group Metals Production**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States <sup>a</sup>	24	35	17	19	6	6	8	7	3
Canada	460	463	482	399	417	465	346	198	405
South Africa <sup>b</sup>	406	754	1,500	2,600	2,700	2,870	2,860	3,017	3,100
USSR	1,000	2,000	2,500	3,300	3,400	3,400	3,500	3,600	3,700

<sup>a</sup> Crude placer platinum and byproduct metals recovered largely from domestic copper refining.

<sup>b</sup> Platinum-group metals from platinum ores and osmiridium from gold ores.

**Table 113** Metric Tons**Molybdenum Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	32,000	40,000	66,400	61,200	66,200	72,300	74,000	76,600	80,600
United States	31,000	35,100	50,500	48,100	51,362	55,523	59,803	65,307	68,351
Canada <sup>b</sup>	348	4,340	15,300	13,000	14,619	16,568	14,068	11,175	12,198
Japan	381	277	264	140	220	182	123	117	96
Other Countries									
Chile	1,850	3,690	5,700	9,090	10,938	10,938	13,196	13,559	13,900
Peru	Negl.	680	607	651	453	463	729	1,085	1,000
Communist Countries									
USSR	4,800	7,300	9,500	10,500	10,700	11,000	11,300	11,600	12,000

<sup>a</sup> Molybdenum content of ores and concentrates.

<sup>b</sup> Shipments.

Chemicals and  
Rubber

**Table 114** Thousand Metric Tons**Caustic Soda Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	8,250	11,600	18,300	19,100	20,600	21,200	21,600	23,600	22,400
United States	4,510	6,207	9,200	8,694	9,202	9,918	10,259	11,587	10,273
Canada	338	583	860	845	1,000	1,014	1,036	1,060	1,085
Japan	869	1,344	2,685	2,948	2,905	2,870	2,776	3,021	3,157
European Community	1,970	2,630	4,390	5,190	6,080	6,140	6,170	6,430	6,230
France	597	671	1,094	1,120	1,274	1,320	1,344	1,450	1,500
Italy	429	691	999	1,002	1,134	1,130	988	986	964
West Germany	776	1,178	1,682	2,489	3,090	3,108	3,252	3,415	3,185
Communist Countries									
USSR and Eastern Europe	1,420	2,250	3,140	4,220	4,580	4,760	4,930	4,980	5,180
USSR	704	1,199	1,783	2,395	2,604	2,658	2,763	2,680	2,755
Eastern Europe	716	1,050	1,360	1,830	1,970	2,100	2,170	2,300	2,420
Bulgaria	17	32	46	84	87	96	102	107	161
Czechoslovakia	115	158	189	257	293	312	311	312	326
East Germany	327	364	413	442	441	423	415	548	626
Hungary <sup>b</sup>	16	49	67	89	91	97	146	194	188
Poland	167	215	313	392	388	440	469	436	415
Romania	74	233	330	566	673	735	725	704	705
Other									
China	N.A.	600	900	1,300	N.A.	1,400	1,600	1,800	1,900
Cuba	N.A.	2	4	4	4	5	5	4	N.A.
Yugoslavia	48	88	93	97	90	96	86	102	136

<sup>a</sup> Pure caustic soda (100 percent NaOH), including tonnage not commercialized but used on site for processing.

<sup>b</sup> Including regenerated caustic soda.

**Table 115** Thousand Metric Tons of N**Synthetic Ammonia Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	3,595 <sup>b</sup>	6,618	10,315	12,232	12,473	12,982	12,773	13,821	14,198
Canada	382 <sup>b</sup>	453	1,007	1,336	1,388	2,162	2,398	2,411	N.A.
Japan	1,059	1,779	2,682	2,990	2,156	2,202	2,368	2,328	2,116
European Community	<b>3,420</b>	<b>5,030</b>	<b>6,580</b>	<b>7,820</b>	<b>7,310</b>	<b>7,810</b>	<b>7,950</b>	<b>8,070</b>	<b>N.A.</b>
France	724	1,281	1,619	1,941	1,781	2,034	2,035	2,150	N.A.
Italy	724	1,035	1,272	1,452	1,220	1,168	1,444	1,458	1,409
Netherlands	410	661	1,340	1,908	1,951	2,166	2,115	1,800	N.A.
West Germany	1,242	1,659	1,821	1,981	1,862	1,989	1,955	2,161	2,044
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>2,180</b>	<b>5,000</b>	<b>10,400</b>	<b>16,200</b>	<b>16,900</b>	<b>17,800</b>	<b>19,000</b>	<b>19,800</b>	<b>21,400</b>
USSR	1,138	3,137	6,282	9,868	10,090	10,744	11,462	12,278	13,764
Eastern Europe	<b>1,040</b>	<b>1,860</b>	<b>4,090</b>	<b>6,340</b>	<b>6,850</b>	<b>7,100</b>	<b>7,530</b>	<b>7,500</b>	<b>7,630</b>
Bulgaria	111	338	788	935	920	995	960	951	1,026
Czechoslovakia	153	254	432	710	725	791	812	804	841
East Germany	392	438	481	919	1,119	1,130	1,137	1,079	1,159
Hungary	67	173	414	513	703	729	746	803	900
Poland	285	440	1,187	1,707	1,726	1,665	1,616	1,530	1,438
Romania	29	218	792	1,559	1,660	1,793	2,259	2,333	2,267
<b>Other</b>									
China <sup>c</sup>	490	1,387	2,970	5,911	5,161	7,734	9,287	10,727	12,150
Yugoslavia	12	114	285	391	387	417	416	419	395

<sup>a</sup> Unless otherwise indicated, nitrogen content of synthetic ammonia. To convert

to actual production of synthetic ammonia, multiply by 1.2158.

<sup>b</sup> Data are for 1961.<sup>c</sup> Including only ammonia produced for fertilizer.

Table 116  
Thousand Metric TonsSulfuric Acid Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	38,700	51,400	61,600	64,900	65,800	73,800	75,500	79,400	79,600
United States <sup>b</sup>	16,223	22,544	26,785	29,357	30,392	35,821	37,479	39,117	39,815
Japan	4,452	5,655	6,925	5,997	6,095	6,392	6,437	6,582	6,772
European Community	12,700	15,800	18,200	17,200	18,100	19,100	19,500	20,600	19,500
France	2,046	2,916	3,682	3,758	3,959	4,501	4,584	5,069	4,950
Italy	2,299	2,979	3,327	3,006	2,896	2,952	2,945	2,956	2,629
United Kingdom	2,745	3,358	3,352	3,166	3,271	3,408	3,456	3,498	3,380
West Germany	3,170	3,751	4,435	4,157	4,668	4,680	4,680	5,066	4,576
Communist Countries									
USSR and Eastern Europe	7,890	12,800	18,100	27,300	28,500	29,600	31,100	30,900	31,600
USSR	5,398	8,518	12,059	18,645	20,015	21,104	22,411	22,364	23,030
Eastern Europe	2,500	4,230	6,090	8,620	8,440	8,530	8,660	8,550	8,520
Bulgaria	123	318	502	854	857	860	974	998	859
Czechoslovakia	553	933	1,110	1,245	1,240	1,276	1,195	1,253	1,284
East Germany	730	985	1,099	1,002	957	927	971	952	950
Hungary <sup>c</sup>	178	393	484	659	653	678	690	613	614
Poland	685	1,062	1,901	3,413	3,179	3,268	3,172	2,983	2,964
Romania	226	541	994	1,448	1,555	1,523	1,655	1,750	1,850
Other									
China	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	6,610	7,000	7,640
Cuba	N.A.	202	322	418	392	375	347	296	N.A.
Yugoslavia	121	405	696	871	843	874	902	976	1,105

<sup>a</sup> Pure (monohydrate) sulfuric acid (100 percent H<sub>2</sub>SO<sub>4</sub>).<sup>b</sup> Including appreciable amounts produced in government-owned privately operated plants.<sup>c</sup> Including oleum.

**Table 117** Thousand Metric Tons**Mineral Fertilizer Production, Nutrient Content <sup>a</sup>**

	1960/61	1965/66	1970/71	1975/76	1976/77	1977/78	1978/79	1979/80	
OECD <sup>b</sup>	22,300	33,900	43,300	46,300	49,600	51,600	55,300	58,800	
United States	7,410	11,933	15,789	18,221	19,202	18,950	20,918	22,360	
Canada	496	2,545	4,465	6,226	7,491	8,435	8,720	9,423	
Japan	1,544	2,203	2,770	2,142	1,796	2,142	2,164	2,237	
Spain	674	1,043	1,604	1,794	2,042	1,937	2,085	2,097	
European Community	10,400	13,300	15,300	14,100	15,000	16,000	17,000	17,900	
France	3,021	4,161	4,644	5,418	4,520	4,734	4,969	5,059	
Italy	1,110	1,590	1,621	1,511	1,509	1,685	2,121	2,262	
West Germany	3,897	4,610	4,743	3,756	4,240	4,473	4,508	4,915	
	1960	1965	1970	1975	1976	1977	1978	1979	1980
Communist Countries									
USSR and Eastern Europe	6,510	12,000	20,800	32,900	34,200	35,500	36,400	34,800	37,300
USSR <sup>c</sup>	3,281	7,389	13,099	21,988	22,590	23,493	23,653	22,137	24,774
Eastern Europe	3,230	4,640	7,710	10,900	11,600	12,000	12,700	12,600	12,500
Bulgaria	127	354	749	918	905	984	968	959	947
Czechoslovakia	287	484	680	1,012	1,100	1,178	1,176	1,140	1,182
East Germany	2,166	2,506	3,244	3,985	4,369	4,470	4,628	4,740	4,773
Hungary	102	265	517	690	767	788	855	850	894
Poland	477	738	1,629	2,581	2,593	2,610	2,621	2,431	2,239
Romania	71	293	895	1,729	1,869	1,981	2,461	2,522	2,451
Other									
China	498	1,502	2,780	5,720	4,830	7,238	8,691	10,654	12,320
Yugoslavia	45	226	364	410	373	411	410	430	439

<sup>a</sup> Nitrogen fertilizer (in terms of nitrogen), phosphorus fertilizer (in terms of phosphoric anhydride), and potassium fertilizer (in terms of potassium oxide).

<sup>b</sup> Data are for "fertilizer years"—in general, the year beginning 1 July.

<sup>c</sup> Including some products used for technical purposes.

Thousand Metric Tons of N

Table 118

## Nitrogen Fertilizer Production, Nutrient Content

	1960/61	1965/66	1970/71	1975/76	1976/77	1977/78	1978/79	1979/80
OECD <sup>a</sup>	8,460	13,400	19,300	21,200	21,800	22,600	24,400	26,200
United States	2,739	5,081	8,161	9,591	9,788	9,495	10,076	11,180
Canada	286	377	726	775	1,204	1,578	1,674	1,675
Japan	1,030	1,615	2,105	1,557	1,171	1,446	1,457	1,493
Spain	110	323	592	825	883	906	929	950
European Community	3,650	4,980	6,240	6,620	6,960	7,310	8,100	8,580
Belgium	278	310	594	610 <sup>b</sup>	645 <sup>b</sup>	609 <sup>b</sup>	753 <sup>b</sup>	756 <sup>b</sup>
France	671	1,066	1,351	1,361	1,462	1,470	1,781	1,780
Italy	658	905	956	1,000	985	1,042	1,442	1,524
Netherlands	417	562	930	1,155	1,297	1,453	1,518	1,500
United Kingdom	449	666	748	1,055	1,071	1,199	1,147	1,316
West Germany	1,180	1,419	1,505	1,259	1,290	1,305	1,273	1,476
Other Countries <sup>a</sup>								
India	110	232	846	1,508	1,862	2,000	2,173	2,224
Communist Countries								
USSR and Eastern Europe	1,910	4,250	8,740	13,500	14,000	14,700	15,200	15,000
USSR <sup>c</sup>	1,003	2,712	5,423	8,535	8,609	9,114	9,299	9,151
Eastern Europe	906	1,540	3,320	4,950	5,380	5,560	5,930	5,870
Bulgaria	86	260	602	672	663	705	685	677
Czechoslovakia	140	220	296	496	568	605	625	591
East Germany	334	348	395	538	776	838	892	875
Hungary	57	148	350	421	492	514	534	550
Poland	270	394	1,030	1,533	1,548	1,521	1,470	1,376
Romania	19	166	647	1,292	1,331	1,381	1,723	1,738
Other								
China	404	1,240	2,443	5,026	4,244	6,360	7,637	8,821
Yugoslavia	4	90	238	278	277	311	306	314
296								

<sup>a</sup> Data are for "fertilizer years"—in general, the year beginning 1 July. Including some technical nitrogen and anhydrous ammonia exported for further processing.

<sup>b</sup> Including Luxembourg.

<sup>c</sup> Including some nitrogen for technical purposes.

Table 119

Thousand Metric Tons of P<sub>2</sub>O<sub>5</sub>

## Phosphate Fertilizer Production, Nutrient Content

	1960/61	1965/66	1970/71	1975/76	1976/77	1977/78	1978/79	1979/80
OECD <sup>a</sup>	7,960	11,300	13,700	13,900	15,200	15,800	16,900	17,800
United States	2,626	4,260	5,369	6,531	7,070	7,480	8,556	9,083
Australia	569	940	695	481	722	755	848	919
Canada	210	419	560	610	632	651	660	685
Japan	515	588	665	585	625	696	707	744
Spain	299	317	487	456	592	479	493	478
European Community	3,100	3,940	4,800	3,720	4,080	4,300	4,180	4,330
Belgium	289	415	745	625 <sup>b</sup>	589 <sup>b</sup>	623 <sup>b</sup>	592 <sup>b</sup>	618 <sup>b</sup>
France <sup>c</sup> <sup>d</sup>	770	1,218	1,451	1,259	1,490	1,560	1,357	1,364
Italy	399	512	510	370	383	510	544	620
West Germany	750	857	946	649	733	722	696	735
Other Countries								
Brazil	45	61	162	594	926	1,122	1,186	1,306

	1960	1965	1970	1975	1976	1977	1978	1979	1980
Communist Countries									
USSR and Eastern Europe	1,850	3,470	5,500	8,120	8,310	8,770	9,090	9,200	9,140
USSR <sup>c</sup>	1,192	2,300	3,585	5,511	5,664	6,024	6,153	6,344	6,471
Eastern Europe	658	1,170	1,910	2,610	2,650	2,750	2,930	2,860	2,670
Bulgaria	41	94	148	246	242	279	283	282	217
Czechoslovakia <sup>c</sup>	147	258	322	398	376	389	367	358	361
East Germany <sup>c</sup>	166	232	430	427	423	403	413	411	411
Hungary	45	117	167	206	188	165	185	165	150
Poland	207	344	599	929	928	966	1,026	931	842
Romania	52	127	244	404	493	548	660	709	689
Other									
China <sup>c</sup>	94	262	330	680	574	860	1,033	1,817	2,310
Yugoslavia	41	136	126	132	96	100	97	116	143

<sup>a</sup> Data are for "fertilizer years"—in general, the year beginning 1 July.<sup>b</sup> Including Luxembourg.<sup>c</sup> Including production of ground phosphate rock for direct application and phosphate animal feeds.<sup>d</sup> Beginning 1 May of the stated year.



Thousand Metric Tons of K<sub>2</sub>O

Table 120

## Potassium Fertilizer Production, Nutrient Content

	1960/61	1965/66	1970/71	1975/76	1976/77	1977/78	1978/79	1979/80
OECD <sup>a</sup>	5,920	9,130	10,300	11,200	12,500	13,100	14,000	14,800
United States	2,045	2,592	2,259	2,099	2,344	1,975	2,286	2,097
Canada	0	1,749	3,179	4,842	5,655	6,206	6,387	7,063
Spain	265	404	525	512	566	552	663	669
European Community	3,600	4,390	4,290	3,760	3,970	4,400	4,680	5,010
France <sup>b</sup>	1,581	1,877	1,842	1,734	1,567	1,704	1,831	1,915
West Germany <sup>c</sup>	1,967	2,335	2,293	1,848	2,217	2,445	2,540	2,704
Other Countries								
Israel	92	310	576	712	645	683	676	769
1960	1965	1970	1975	1976	1977	1978	1979	1980
Communist Countries								
USSR and Eastern Europe	2,750	4,300	6,570	11,300	11,900	12,000	12,000	12,000
USSR <sup>d</sup>	1,084	2,368	4,087	7,944	8,310	8,347	8,193	6,635
Eastern Europe	1,670	1,930	2,490	3,400	3,600	3,700	3,850	3,920
Czechoslovakia <sup>e</sup>	0	6	62	168	184	184	191	199
East Germany	1,666	1,926	2,420	3,019	3,161	3,229	3,323	3,395
Hungary <sup>e</sup>	0	0	0	63	87	109	136	143
Poland <sup>e</sup>	0	0	0	119	120	123	125	110
Romania <sup>e</sup>	0	0	4	33	45	52	78	75
Other								
China	0	0	7	14	12	18	21	16
20								

<sup>a</sup> Data are for "fertilizer years"—in general, the year beginning 1 July. Including

unidentified double counting of some products used for technical purposes (estimated at 4 percent of the total).

<sup>b</sup> Beginning 1 May of the stated year.<sup>c</sup> Excluding technical potash.<sup>d</sup> Including some potassium for technical purposes.<sup>e</sup> Imported potash added to domestically produced nitrogen and phosphate to form multinutrient fertilizer.

**Table 121** Thousand Metric Tons**Plastics Production**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>a</sup>	2,850	5,300	9,660	10,206	13,261	11,232	12,380	13,866	12,418
Japan	556	1,609	5,128	4,373	4,952	4,978	5,882	6,964	6,422
European Community	<b>2,400</b>	<b>5,070</b>	<b>10,200</b>	<b>13,400</b>	<b>16,700</b>	<b>17,700</b>	<b>18,300</b>	<b>19,800</b>	<b>18,400</b>
West Germany	982	1,999	4,321	5,046	6,444	6,270	6,703	7,255	6,710
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>560</b>	<b>1,370</b>	<b>2,860</b>	<b>4,920</b>	<b>5,530</b>	<b>6,100</b>	<b>6,500</b>	<b>6,560</b>	<b>7,040</b>
USSR <sup>b</sup>	312	803	1,670	2,838	3,058	3,309	3,516	3,478	3,638
Eastern Europe	<b>248</b>	<b>571</b>	<b>1,190</b>	<b>2,080</b>	<b>2,470</b>	<b>2,790</b>	<b>2,980</b>	<b>3,080</b>	<b>3,400</b>
Bulgaria	7	33	89	156	157	169	178	200	250
Czechoslovakia	64	126	245	428	581	738	810	853	894
East Germany	115	219	370	605	679	734	762	779	800
Hungary	10	27	56	124	141	148	213	294	328
Poland	40	91	224	421	446	463	467	440	549
Romania	12	75	206	347	465	543	552	516	579
<b>Other</b>									
China	N.A.	100	180	330	N.A.	520	680	790	900
Yugoslavia	15	57	97	160	205	237	293	342	438

<sup>a</sup> Dry basis, excluding water, solvents, and other liquid diluents.<sup>b</sup> Including resins for manmade fibers.**Table 122** Thousand Metric Tons**Natural Rubber Production**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
India	25.2	49.4	89.9	136.0	147.8	151.6	133.0	147.2	155.4
Indonesia <sup>a</sup>	620.3	716.5	815.2	822.5	847.5	835.0	902.5	905.0	996.0
Malaysia <sup>b</sup>	755.7	917.0	1,269.2	1,459.3	1,612.4	1,588.0	1,583.0	1,599.9	1,552.3
Sri Lanka	98.8	118.3	159.2	148.8	152.1	146.2	155.7	152.7	133.2
Thailand <sup>a</sup>	170.8	216.4	318.8	355.0	411.9	430.9	467.0	531.2	515.0

<sup>a</sup> Exports plus estimated consumption.<sup>b</sup> Including data for Malaya and Singapore, Sarawak, and Sabah.

**Table 123**  
**Synthetic Rubber Production**  
Thousand Metric Tons

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>	<b>1,910</b>	<b>2,960</b>	<b>4,550</b>	<b>4,480</b>	<b>5,470</b>	<b>5,710</b>	<b>5,840</b>	<b>6,090</b>	<b>5,380</b>
United States	1,459	1,842	2,232	1,990	2,425	2,521	2,605	2,675	2,150
Canada	162	206	205	173	210	238	248	282	253
Japan	23	161	698	789	941	971	1,029	1,107	1,094
European Community	<b>269</b>	<b>728</b>	<b>1,340</b>	<b>1,410</b>	<b>1,740</b>	<b>1,820</b>	<b>1,790</b>	<b>1,860</b>	<b>1,700</b>
France	17	148	316	350	437	479	492	541	511
Italy	67	120	155	200	250	240	250	270	250
Netherlands	12	100	200	216	247	240	223	228	215
United Kingdom	92	175	316	261	320	329	294	278	212
West Germany	81	164	302	316	373	414	407	418	390
<b>Other Countries</b>									
Brazil	0	39	75	129	164	188	206	224	249
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>454</b>	<b>789</b>	<b>1,210</b>	<b>1,880</b>	<b>2,000</b>	<b>2,190</b>	<b>2,300</b>	<b>2,400</b>	<b>2,410</b>
USSR <sup>a</sup>	347	604	914	1,450	1,570	1,700	1,795	1,867	1,880
Eastern Europe	<b>107</b>	<b>185</b>	<b>295</b>	<b>27</b>	<b>435</b>	<b>486</b>	<b>503</b>	<b>534</b>	<b>527</b>
Bulgaria	0	0	4	19	21	25	25	30	30
Czechoslovakia	0	20	50	57	57	59	59	60	59
East Germany <sup>b</sup>	87	95	118	144	145	147	145	165	170
Poland	20	39	62	108	117	119	126	130	118
Romania	0	31	61	99	95	136	148	149	150

<sup>a</sup> Estimated.

<sup>b</sup> Including Pervinan and Plastikator.

**Manufacturing Goods  
and Forestry**

Table 124

Woven Cotton Fabrics Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States (million lm)	8,564	8,447	5,711	3,744	4,091	3,983	3,664	3,527	3,435
Japan (million sm)	3,221	3,013	2,616	2,124	2,232	2,268	2,316	2,340	2,202
Spain (thousand mt)	93	101	112	132	122	127	N.A.	N.A.	N.A.
Turkey <sup>b</sup> (million lm)	384	781	815	787	760	662	773	827	670
European Community									
France (thousand mt)	384	210	197	174	185	192	168	169	161
Italy (thousand mt)	139	103	129	126	113	138	137	154	188
United Kingdom <sup>b</sup> (million lm)	1,183	928	628	406	374	370	379	350	314
West Germany (thousand mt)	249	206	182	150	153	169	144	145	147
Other Countries									
Hong Kong <sup>b</sup> (million sm)	387	543	645	682	823	677	653	718	660
India (million lm)	6,629	7,643	7,849	8,028	7,944	6,900	7,320	7,351	N.A.
Pakistan <sup>b</sup> <sup>c</sup> (million lm)	575	654	663	608	569	436	N.A.	N.A.	N.A.
Communist Countries									
USSR and Eastern Europe									
USSR <sup>d</sup> (million sm)	4,838	5,499	6,152	6,634	6,779	6,811	6,967	6,977	7,033
Eastern Europe									
Bulgaria <sup>d</sup> (million lm)	218	291	319	372	359	371	353	347	344
Czechoslovakia <sup>d</sup> <sup>e</sup> (million lm)	464	500	501	555	531	571	593	608	613
East Germany (million sm)	254	244	248	246	274	272	264	263	N.A.
Hungary <sup>d</sup> (million sm)	247	323	304	352	353	366	365	349	335
Poland <sup>d</sup> (million lm)	665	811	881	928	948	948	917	884	883
Romania <sup>d</sup> (million sm)	248	319	437	591	677	703	718	707	710
Other									
China (million lm)	N.A.	5,727	8,500	9,565	8,888	10,151	11,029	12,150	12,800
Cuba (million sm)	N.A.	96	76	138	134	149	154	148	N.A.
Yugoslavia <sup>f</sup> (million sm)	257	394	390	376	385	384	410	418	386

<sup>a</sup> Unless otherwise indicated, data are for fabrics, in the piece, before undergoing finishing processes such as bleaching, dyeing, and making up. Abbreviations for units of measure are as follows: linear meters, lm; square meters, sm; and metric tons, mt.

<sup>b</sup> Excluding mixed fabrics.

<sup>c</sup> Mill production only. Data include finished fabrics.

<sup>d</sup> Fabrics after undergoing finishing processes.

<sup>e</sup> Including nonwoven fabrics.

<sup>f</sup> Including cellulosic fabrics.

Table 125

Woven Woolen Fabrics Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States (million lm)	262	244	163	71	87	93	107	107	105
Australia <sup>b</sup> (million sm)	25	30	27	14	14	6	7	8	9
Canada <sup>c</sup> <sup>d</sup> (million sm)	25	30	28	31	29	28	28	N.A.	N.A.
Japan <sup>e</sup> (million sm)	316	341	426	356	373	347	336	326	294
Spain (thousand mt)	17	22	34	30	28	29	30	N.A.	N.A.
Turkey <sup>f</sup> (million lm)	10	24	25	35	38	23	32	36	24
<b>European Community</b>									
Belgium (thousand mt)	29	38	39	30	34	27	28	31	36
France (thousand sm)	122	103	108	107	91	101	109	113	117
Italy (thousand mt)	47	25 <sup>c</sup>	134	159	189	100	98	N.A.	N.A.
Netherlands <sup>e</sup> (million sm)	68	67	27	19	17	13	12	N.A.	N.A.
United Kingdom <sup>c</sup> <sup>d</sup> (million sm)	307	270	215	151	143	150	144	138	118
West Germany <sup>e</sup> (thousand mt)	51	55	48	38	40	37	36	36	39
<b>Communist Countries</b>									
<b>USSR and Eastern Europe</b>									
USSR <sup>e</sup> (million sm)	439	466	643	740	764	773	781	774	780
<b>Eastern Europe</b>									
Bulgaria <sup>e</sup> (million lm)	19	20	27	38	34	35	33	34	38
Czechoslovakia <sup>c</sup> <sup>g</sup> (million lm)	46	44	49	69	65	65	62	59	59
East Germany (million sm)	49	39	37	37	39	39	38	38	N.A.
Hungary <sup>e</sup> (million sm)	32	36	39	39	41	43	43	41	43
Poland <sup>e</sup> (million lm)	79	91	99	124	126	125	125	122	121
Romania <sup>e</sup> (million sm)	32	41	63	96	105	119	123	125	127
<b>Other</b>									
Yugoslavia (million sm)	46	55	57	66	67	77	78	76	92

<sup>a</sup> Unless otherwise indicated, data are for woven woolen and worsted fabrics (in the piece, before undergoing finishing processes such as bleaching, dyeing, and making up) and for mixed woolen fabrics. Abbreviations for units of measure are as follows: linear meters, lm; square meters, sm; and metric tons, mt.

<sup>b</sup> Twelve months ending 30 June of the stated year.

<sup>c</sup> Fabrics after undergoing finishing processes.

<sup>d</sup> Factory shipments.

<sup>e</sup> Including finished fabrics.

<sup>f</sup> Excluding mixed fabrics.

<sup>g</sup> Including nonwoven fabric.

Table 126

Woven Rayon and Acetate Fabrics Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States (million lm)	1,312	1,792	1,374	610	507	600	673	672	653
Australia <sup>b</sup> (million sm)	15	27	29	16	17	17	15	18	19
Japan <sup>c</sup> (million sm)	1,828	1,653	1,545	840	924	888	852	900	881
<b>European Community</b>									
Belgium (thousand mt)	10	17	26	28	31	32	33	34	34
France <sup>d</sup> (thousand mt)	30	32	42	47	50	49	48	52	57
United Kingdom <sup>d</sup> (million lm)	564	572	444	496	493	498	458	458	350
West Germany (thousand mt)	N.A.	116	97	67	72	66	66	65	67
<b>Other Countries</b>									
India <sup>d</sup> (million lm)	550	870	935	846	1,024	1,166	N.A.	N.A.	N.A.
<b>Communist Countries</b>									
<b>USSR and Eastern Europe</b>									
USSR (million sm)	628	769	1,112	1,463	1,550	N.A.	N.A.	N.A.	N.A.
<b>Eastern Europe</b>									
Bulgaria <sup>d</sup> (million lm)	11	15	21	31	32	29	32	30	33
Czechoslovakia (million lm)	N.A.	59	65	62	59	60	58	51	N.A.
East Germany (million sm)	68	77	117	121	118	124	131	132	N.A.
Hungary <sup>e</sup> (million sm)	28	36	57	55	57	57	62	57	56
Poland <sup>f</sup> (million lm)	112	126	156	180	190	177	168	163	163
Romania <sup>e</sup> (million sm)	25	32	48	89	106	120	126	130	134
<b>Other</b>									
Cuba <sup>g</sup> (million sm)	N.A.	21	2	6	5	3	2	2	N.A.
Yugoslavia <sup>d</sup> (million sm)	19	24	29	36	36	42	41	39	36

<sup>a</sup> Unless otherwise indicated, data are for pure and mixed fabrics, in the piece, before undergoing finishing processes such as bleaching, dyeing, and making up. Abbreviations for units of measure are as follows: linear meters, lm; square meters, sm; and metric tons, mt.

<sup>b</sup> Twelve months ending 30 June of the stated year.

<sup>c</sup> Including finished fabrics.

<sup>d</sup> Including fabrics of noncellulosic fibers.

<sup>e</sup> Including fabrics of natural silk.

<sup>f</sup> Fabrics after undergoing finishing processes.

<sup>g</sup> State production of woven rayon.

Table 127  
Thousand Metric TonsSynthetic Fibers Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States	307.2	806.0	1,626.7	2,664.4	2,996.3	3,316.8	3,523.0	3,818.6	3,571.2
Canada	17.0	37.5	73.4	95.8	98.3	114.7	118.4	122.0	N.A.
Japan	118.3	379.6	1,027.9	1,061.2	1,245.5	1,320.0	1,418.4	1,410.0	1,400.4
Spain	3.1	14.8	63.5	120.2	146.2	159.6	189.6	189.6	N.A.
European Community	204	586	1,370	1,660	2,030	1,870	1,980	1,960	1,790
France	45.3	92.8	175.2	204.7	250.6	249.6	258.0	235.2	222.4
Italy	33.7	109.8	241.7	321.9	427.5	381.6	405.6	406.8	399.6
United Kingdom <sup>b</sup>	61.0	148.0	336.9	361.2	414.0	358.8	406.8	381.6	288.0
West Germany	52.3	179.3	497.0	633.6	770.4	712.8	746.4	784.8	721.2
Communist Countries									
USSR and Eastern Europe	35.5	136	361	819	912	1,000	1,080	1,130	1,200
USSR	15.0	77.0	167.0	365.0	408.0	459.0	497.0	529.0	566.0
Eastern Europe	20.5	58.7	194	454	504	543	579	600	632
Bulgaria	0	0	23.1	41.7	41.9	44.0	45.5	51.7	53.5
Czechoslovakia	3.4	9.8	31.4	69.4	75.1	80.1	92.9	97.6	106.3
East Germany	7.8	19.0	47.3	111.8	117.6	124.0	131.1	135.8	140.1
Hungary	0.4	2.3	5.6	11.3	11.8	16.9	19.3	18.7	20.2
Poland	8.0	24.3	57.5	124.2	143.3	153.4	158.6	160.6	170.0
Romania	0.9	3.3	29.5	95.6	113.9	124.5	131.3	135.2	141.9
Other									
Yugoslavia	N.A.	1.1	8.7	18.5	20.8	25.7	35.8	36.0	49.9

<sup>a</sup> Data are for noncellulosic fibers whether made of natural polymers, which are based on materials such as casein or groundnuts, or made of synthetic polymers, which are based mostly on coal or petroleum. Data exclude waste, glass fibers, and rubber fibers.

<sup>b</sup> "Delivery weight," approximately 3 percent less than "actual weight," prior to mid-1967. Thereafter, approximately one-half of production is reported as "actual weight."



Table 128

Electric Generator Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States <sup>b</sup>	12,899	15,451	27,565	30,496	35,349	30,222	27,865	29,757	21,122
Communist Countries									
USSR	7,900	14,390	10,578	17,100	16,600	17,900	18,200	17,000	16,100
Bulgaria	29	13	37	32	96	67	65	83	N.A.
Czechoslovakia <sup>c</sup>	1,391	888	1,488	1,474	1,775	1,863	1,745	1,300	N.A.
Hungary <sup>c d</sup>	347	416	590	861	801	125	29	420	N.A.
Romania	83	295	747	1,479	2,234	1,515	1,069	1,016	N.A.
China	N.A.	800	2,300	N.A.	N.A.	3,181	4,838	6,212	4,193

<sup>a</sup> Turbogenerators and hydrogenerators. Production of diesel generators is believed to be negligible in most instances.

<sup>b</sup> Shipments of units of 4,000 kilowatts and larger.

<sup>c</sup> Generators for steam and gas turbines only.

<sup>d</sup> Thousand kilowatt amperes.

Table 129

Turbine Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States <sup>b</sup>	12,899	15,451	27,565	30,496	35,349	30,222	27,865	29,757	21,122
Communist Countries									
USSR <sup>c</sup>	9,200	14,625	16,191	18,886	19,594	18,900	19,500	20,000	20,300
Czechoslovakia	1,555	1,994	2,239	1,720	1,616	1,745	1,688	1,252	N.A.
Poland <sup>d</sup>	186	471	1,135	1,820	1,831	1,532	1,579	1,872	1,318
Romania <sup>c</sup>	98	27	121	712	678	734	603	515	N.A.

<sup>a</sup> Unless otherwise indicated, data are for steam and hydraulic turbines. Most production of turbines is for use in matched sets with generators for production of electricity. In addition, turbines are produced in single units for many purposes, including direct industrial drives, marine propulsion, and pipeline transmission.

<sup>b</sup> Shipments of units of 4,000 kilowatts and larger. Data are available only for turbines produced in integral units together with generators. Therefore, data for turbines and

generators for the United States are assumed to be the same. Some turbines are produced in single units, but no data are available on this production.

<sup>c</sup> Including a small number of gas turbines.

<sup>d</sup> Steam turbines only.

<sup>e</sup> Steam turbines of more than 500 kilowatts only.

**Table 130** Million Square Meters**Housing Construction <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States	145.4	159.5	152.3	161.6	177.0	213.3	236.9	232.3	180.0
USSR	109.6	97.6	106.0	109.9	106.2	107.8	106.8	101.4	108.0

<sup>a</sup> Total housing space, which includes living rooms, bedrooms, dining area, and auxiliary space such as bathrooms, kitchens, closets, and inside hallways.

**Table 131****Metalcutting Machine Tool Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States <sup>b</sup>									
Million US \$	539.30	1,047.80	1,097.70	1,790.40	1,592.20	1,789.40	2,139.00	2,946.05	4,608.97
Thousand units	42.91	68.01	49.31	64.32	54.10	59.40	58.12	76.07	61.37
Communist Countries									
USSR and Eastern Europe									
USSR									
Million US \$ <sup>c</sup>	611.74	931.48	1,427.88	2,179.78	2,340.38	2,556.49	2,805.78	2,692.24	2,830.40
Thousand units	155.92	186.13	202.16	231.35	232.79	237.56	237.88	230.00	221.00
Eastern Europe									
Bulgaria (thousand units)	3.15	8.06	13.94	16.28	14.44	13.74	15.32	16.47	17.50
Czechoslovakia (thousand units)	30.23	24.33	35.19	29.66	31.73	37.61	34.25	35.66	34.00
East Germany (thousand units)	41.90	24.77	22.22	19.72	19.42	18.76	19.33	18.42	17.00
Hungary (thousand units)	9.78	13.85	14.48	12.83	14.01	15.27	12.69	12.06	11.06
Poland (thousand units)	22.47	31.13	29.73	33.19	24.23	23.18	30.00	30.86	31.00
Romania (thousand units)	4.44	7.16	14.14	28.27	29.95	30.07	27.55	27.19	27.00
Other									
China (thousand units)	N.A.	40.00	140.00	175.00	N.A.	200.00	180.00	140.00	130.00

<sup>a</sup> Power-driven metalcutting machines that are not portable by hand and are used to remove metal in the form of chips; these machines include lathes and planers and milling, honing, lapping, grinding, electroerosion, and ultrasonic cutting machines.

<sup>b</sup> Average value of \$1,000 and over for 1960-77 and beginning in 1978, \$2,500 and over.

<sup>c</sup> Converted at the exchange rate of 1 ruble=\$1.46.

**Table 132****Metallforming Machine Tool Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States									
Million US \$	238.4	409.9	454.1	615.7	586.0	651.3	784.7	989.6	1,157.0
Thousand units <sup>b</sup>	19.3	25.3	24.2	26.8	26.7	32.5	29.5	31.4	30.3
USSR									
Million US \$ <sup>c</sup>	188.3	235.1	359.2	581.1	664.3	706.6	776.7	792.8	825.0
Thousand units	29.9	34.6	41.3	50.5	51.9	54.3	55.4	56.3	57.2

<sup>a</sup> Power-driven metallforming machine tools that are not supported in the hands of an operator when in use and are designed to press, forge, emboss, hammer, extrude, blank, spin, shear, and bend metal into shape.

<sup>b</sup> Average value of \$1,000 and over for 1960-77 and beginning in 1978, \$2,500 and over.

<sup>c</sup> Converted at the exchange rate of 1 ruble = \$1.46.

**Table 133****Grain Combine Production <sup>a</sup>**

Units

	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States <sup>b</sup>	30,165	37,606	21,017	31,259	31,712	31,943	31,843	32,400	N.A.
Communist Countries									
USSR and Eastern Europe	67,000	94,200	103,000	108,000	112,000	116,000	124,000	N.A.	N.A.
USSR	59,000	85,800	99,200	97,500	101,700	105,500	113,000	115,000	117,000
Eastern Europe	8,040	8,380	4,230	10,800	10,600	10,700	11,200	N.A.	N.A.
East Germany	1,972	1,585	900	1,500	1,400	1,400	3,000	N.A.	N.A.
Poland	564	1,781	2,155	3,591	3,956	4,003	4,301	4,268	N.A.
Romania	5,500	5,012	1,179	5,659	5,198	5,365	3,887	3,016	N.A.

<sup>a</sup> Tractor-drawn and self-propelled.

<sup>b</sup> Shipments.

Table 134

## Computers and Peripheral Equipment Production

	1970	1975	1976	1977	1978	1979	1980
OECD							
United States <sup>a</sup> (million US \$)	3,678	7,478	9,900	11,766	14,995	19,376	24,026
Japan (million US \$)	862	1,824	2,087	2,679	4,326	5,131	N.A.
United Kingdom <sup>b</sup> (million US \$)	501	1,081	1,068	1,177	1,569	2,231	2,672
West Germany (million US \$)	736	1,403	1,577	2,201	2,712	3,236	3,504
Communist Countries							
USSR <sup>c</sup> (million rubles)	710	1,921	2,266	2,807	3,400	3,941	4,500
East Germany <sup>d</sup> (million marks)	1,100	2,033	2,173	2,327	2,423	3,030	N.A.
Hungary <sup>e</sup> (million forints)	128	2,852	3,677	4,177	4,558	5,200	4,546
Poland <sup>f</sup> (million zlotys)	650	6,760	8,779	9,884	10,748	11,668	11,485

<sup>a</sup> Shipments.<sup>b</sup> Sales.<sup>c</sup> Including business machines. Starting in 1975, the Soviets changed their prices; therefore, data for 1975-80 are not comparable with data for earlier years.<sup>d</sup> Including business machines. Values are based on current prices.<sup>e</sup> Based on current prices.<sup>f</sup> Based on comparable prices.

Thousand Units

Table 135

Tractor Production<sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States	178.5	271.8	191.7	232.0	213.2	226.3	197.3	222.4	155.4
European Community									
France	63.4	90.0	68.8	55.8	64.5	60.4	48.1	46.5	39.1
Italy	37.6	62.7	84.8	116.4	128.2	140.5	116.4	115.8	N.A.
United Kingdom <sup>b</sup>	181.0	178.5	160.7	141.7	161.5	147.2	135.0	125.0	N.A.
West Germany <sup>c</sup>	120.7	105.0	105.4	114.1	125.2	128.9	112.0	115.0	N.A.
Communist Countries									
USSR and Eastern Europe	308	443	570	697	717	733	746	719	N.A.
USSR	238.5	354.5	458.5	550.4	562.2	569.1	576.1	557.0	557.6
Eastern Europe	70.0	88.2	112	147	155	164	170	162	N.A.
Bulgaria	0	3.8	4.4	5.1	5.9	6.3	7.7	5.9	N.A.
Czechoslovakia	32.5	32.1	18.5	29.6	31.5	35.0	33.3	35.4	N.A.
East Germany	9.1	12.9	16.4	4.0	4.0	3.9	3.4	3.5	N.A.
Hungary	2.6	3.0	1.9	0.6	0.5	0.7	0.4	0.1	0.1
Poland	8.7	20.6	41.0	57.6	58.8	59.1	59.5	54.2	57.5
Romania	17.1	15.8	29.3	50.0	53.9	59.3	65.7	62.5	N.A.
Other									
China	10.8	13.7	24.0	N.A.	N.A.	99.3	113.5	125.6	98.0
Yugoslavia	7.3	7.4	12.0	33.2	42.2	41.8	50.1	49.9	N.A.

<sup>a</sup> Excluding garden-type tractors.<sup>b</sup> Shipments.<sup>c</sup> Excluding tracklaying tractors.

Table 136  
Thousand Units

## Passenger Automobile Production

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>a</sup>	6,675	9,306	6,547	6,713	8,498	9,199	9,165	8,419	6,400
Canada	326	707	923	1,045	1,137	1,163	1,144	988	847
Japan	165	696	3,179	4,568	5,028	5,431	5,976	6,180	6,738
Spain	N.A.	160	455	702	754	1,028	989	973	1,040
European Community	<b>4,920</b>	<b>7,130</b>	<b>9,410</b>	<b>8,530</b>	<b>9,800</b>	<b>10,200</b>	<b>10,300</b>	<b>10,300</b>	<b>9,450</b>
France	1,136	1,374	2,458	2,951	3,388	3,559	3,624	3,732	3,487
Italy <sup>b</sup>	596	1,104	1,720	1,348	1,471	1,452	1,512	1,476	1,450
United Kingdom	1,353	1,722	1,641	1,268	1,333	1,316	1,223	1,070	924
West Germany	1,817	2,734	3,528	2,905	3,548	3,796	3,900	3,936	3,512
<b>Other Countries</b>									
Brazil	57	114	255	554	556	463	538	553	925
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>272</b>	<b>411</b>	<b>710</b>	<b>1,780</b>	<b>1,880</b>	<b>1,980</b>	<b>2,080</b>	<b>2,110</b>	<b>N.A.</b>
USSR	139	201	344	1,201	1,239	1,280	1,312	1,314	1,327
Eastern Europe	<b>133</b>	<b>210</b>	<b>366</b>	<b>581</b>	<b>645</b>	<b>697</b>	<b>769</b>	<b>793</b>	<b>N.A.</b>
Bulgaria	0	0	8	15	15	15	15	15	N.A.
Czechoslovakia	56	78	143	175	179	159	176	182	N.A.
East Germany	64	103	127	159	164	167	171	171	N.A.
Poland <sup>c</sup>	12	25	64	164	216	279	326	350	351
Romania <sup>d</sup>	1	4	24	68	71	77	81	75	N.A.
<b>Other</b>									
Yugoslavia <sup>e</sup>	4	36	111	183	195	234	254	279	N.A.

<sup>a</sup> Factory sales. Starting in 1980 excluding passenger vans<sup>b</sup> Excluding production for the armed forces.<sup>c</sup> Excluding special passenger cars.<sup>d</sup> Including jeeps.<sup>e</sup> Including vehicles assembled from imported parts.

Table 137

Truck and Bus Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
Thousand Units									
OECD <sup>b</sup>									
United States <sup>c</sup>	1,194	1,752	1,692	2,272	2,979	3,442	3,706	3,037	1,667
Canada	72	145	236	379	503	613	611	644	528
Japan	595	1,222	2,126	2,376	2,556	3,072	3,264	3,468	4,004
Spain	17	74	77	113	107	134	150	166	150
European Community	982	1,020	1,210	1,120	1,290	1,320	1,300	1,370	1,560
France	234	242	292	336	468	456	456	468	505
Italy <sup>d</sup>	49	72	134	109	119	144	146	151	168
United Kingdom	458	455	458	380	372	398	384	408	490
West Germany	238	243	318	288	324	312	300	324	380
Other Countries									
Brazil	76	72	161	395	449	442	526	575	N.A.
Communist Countries									
USSR and Eastern Europe	568	505	728	980	1,000	1,030	1,060	1,070	N.A.
USSR	501	415	572	763	786	808	839	859	872
Eastern Europe	67	90	156	217	219	218	216	215	N.A.
Bulgaria	0	0	3	6	7	7	7	8	N.A.
Czechoslovakia <sup>e</sup>	18	18	27	36	40	39	40	43	N.A.
East Germany	13	16	27	38	38	40	40	40	40
Hungary <sup>e</sup>	4	6	10	13	13	13	14	14	13
Poland	23	34	53	85	83	80	77	70	60
Romania	9	16	37	39	38	39	38	38	N.A.
Other									
China <sup>f</sup>	15	30	70	133	133	125	149	186	220
North Korea	3	4	8	19	21	22	23	24	N.A.
Yugoslavia	6	12	17	19	22	21	20	23	N.A.

<sup>a</sup> Unless otherwise indicated, data are for light and heavy trucks, wheeled

tractors for road haulage, special vehicles, and buses.

<sup>b</sup> Data include complete units exported for assembly.<sup>c</sup> Factory sales, including passenger vans starting in 1980.<sup>d</sup> Excluding production for the armed forces.<sup>e</sup> Excluding wheeled tractors.<sup>f</sup> Excluding buses, jeeps, and three-wheel trucks.

**Table 138** Thousand Units**Railroad Freight Car Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>b</sup>	57.31	77.83	66.18	72.39	52.55	51.73	67.44	90.02	85.92
<b>European Community</b>									
France <sup>b</sup>	7.93	15.04	14.23	9.62	6.92	6.37	3.75	6.06	5.60
West Germany	6.63	11.31	9.60	6.96	6.82	6.81	5.89	6.01	10.60
<b>Other Countries</b>									
India	11.90	33.50	11.98	12.24	11.28	12.67	11.00	11.29	12.80
<b>Communist Countries</b>									
USSR and Eastern Europe	64.7	72.9	97.5	117	119	118	115	108	N.A.
USSR	36.40	39.60	58.30	69.90	71.90	71.20	68.30	64.60	63.00
Eastern Europe	28.3	33.3	39.2	47.4	46.7	47.3	46.2	43.8	N.A.
Bulgaria	2.01	1.58	1.99	2.51	2.55	2.75	2.56	2.86	N.A.
Czechoslovakia	5.15	4.30	4.35	5.03	5.09	5.53	6.20	6.84	N.A.
East Germany	2.14	2.17	5.71	5.05	5.43	5.59	5.80	5.03	N.A.
Hungary	0.45	0.55	0.50	0.48	0.09	0.16	0.06	0.01	0.03
Poland	13.90	16.30	15.46	18.74	20.40	18.60	17.87	15.91	15.20
Romania	4.62	8.58	11.16	15.59	13.11	14.65	13.75	13.20	N.A.
Other									
China	23.00	6.60	8.00	14.50	15.00	6.40	16.95	16.04	10.57
North Korea	0.60	1.60	3.50	6.90	7.40	8.90	9.20	9.50	N.A.
Yugoslavia	3.42	4.85	2.61	3.33	3.32	1.23	1.45	1.72	N.A.

<sup>a</sup> Units of two, four, or more axles. Most production now

consists of four-axle units.

<sup>b</sup> Shipments.



**Table 139** **Television Receiver Production** **Thousand Units**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	5,828	11,028	9,483	10,637	14,131	15,432	17,406	16,616	17,508
Japan	3,578	4,190	13,782	12,625	17,105	15,210	15,000	15,300	18,100
European Community	<b>6,140</b>	<b>7,210</b>	<b>9,350</b>	<b>9,400</b>	<b>10,200</b>	<b>11,200</b>	<b>11,800</b>	<b>11,300</b>	<b>N.A.</b>
France	655	1,250	1,511	1,606	1,777	1,911	2,101	1,854	1,928
Italy	728	1,042	2,030	1,595	1,813	2,211	2,172	2,031	1,984
United Kingdom	2,141	1,591	2,214	2,124	2,106	2,175	2,410	2,470	2,060
West Germany	2,164	2,776	2,936	3,356	3,727	4,082	4,290	4,100	<b>N.A.</b>
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>2,720</b>	<b>5,360</b>	<b>8,900</b>	<b>9,920</b>	<b>10,100</b>	<b>9,940</b>	<b>10,100</b>	<b>10,300</b>	<b>N.A.</b>
USSR	1,726	3,655	6,682	6,960	7,063	7,073	7,165	7,271	7,500
Eastern Europe	<b>989</b>	<b>1,700</b>	<b>2,220</b>	<b>2,960</b>	<b>3,000</b>	<b>2,870</b>	<b>2,960</b>	<b>3,030</b>	<b>N.A.</b>
Bulgaria	Negl.	74	193	124	58	65	70	82	88
Czechoslovakia	263	274	383	445	456	461	482	450	389
East Germany	416	537	380	509	560	525	487	584	<b>N.A.</b>
Hungary	139	267	364	400	412	423	435	421	418
Poland	171	452	616	971	963	920	972	915	896
Romania	Negl.	101	280	512	548	476	516	574	541
<b>Other</b>									
China	<b>N.A.</b>	5	15	205	163	245	517	1,329	2,492
Yugoslavia	14	254	320	425	402	427	449	599	543

Thousand Units

Table 140

Radio Receiver Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States <sup>b</sup>	24,463	41,726	44,427	34,516	44,102	52,926	48,036	40,029	28,104
Canada <sup>c</sup>	696	931	2,004	1,009	837	1,152	1,049	N.A.	N.A.
Japan	12,851	22,937	32,618	14,283	16,770	17,308	16,278	13,910	15,343
European Community	8,560	11,100	16,400	10,900	13,000	14,000	11,900	N.A.	N.A.
Belgium/Luxembourg/Netherlands	1,103	1,240	1,943	1,796	1,726	1,894	1,820	N.A.	N.A.
France	2,214	2,298	2,921	3,051	3,458	3,570	3,019	2,770	2,185
Italy	935	1,195	3,300	791	1,540	1,961	1,616	1,735	1,690
United Kingdom	2,504	1,912	1,313	684	723	892	810	N.A.	N.A.
West Germany	4,313	4,071	6,729	4,415	5,443	5,589	4,468	4,441	N.A.
Communist Countries									
USSR and Eastern Europe	6,400	7,570	10,800	12,500	13,000	13,400	13,600	13,400	N.A.
USSR	4,165	5,160	7,815	8,376	8,456	8,652	8,728	8,452	8,500
Eastern Europe	2,240	2,410	3,020	4,100	4,590	4,780	4,930	4,960	N.A.
Bulgaria	157	130	145	228	169	147	86	53	N.A.
Czechoslovakia	270	298	416	183	224	235	241	270	N.A.
East Germany	810	808	807	1,071	1,122	1,126	1,103	964	N.A.
Hungary	212	228	206	255	250	259	264	257	271
Poland	627	624	987	1,651	2,038	2,291	2,569	2,661	2,696
Romania	167	323	455	712	791	730	664	757	863
Other									
China	1,500	1,500	4,600	N.A.	N.A.	N.A.	11,700	13,800	30,040
Yugoslavia	244	504	277	140	109	187	172	135	126

<sup>a</sup> Civilian radio receivers and radio-phonograph combinations.<sup>b</sup> The data presented reflect the total market and include, prior to 1971, factory sales by manufacturers plus products imported directly for resale. Beginning 1971, data include products produced, imports by manufacturers for sale under their brand names, and products imported directly for resale.<sup>c</sup> Receiving sets for home use only.

Table 141

Rubber Tire Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
Thousand Units									
OECD									
United States	123,059	172,532	193,971	191,999	190,898	237,049	227,818	212,227	163,458
Japan <sup>b</sup>	10,100	28,432	63,828	74,580	85,284	82,776	90,900	101,020	116,952
European Community									
France <sup>c</sup>	16,518	23,374	39,415	39,365	43,995	46,590	46,405	50,820	50,200
Italy <sup>b</sup>	N.A.	N.A.	22,383	25,716	28,692	53,292	52,944	53,640	52,600
United Kingdom <sup>b</sup>	15,904	23,394	30,540	26,008	29,871	28,911	26,665	26,895	26,346
West Germany <sup>b</sup>	14,745	25,566	37,548	32,016	37,596	38,232	37,524	38,568	38,052
Communist Countries									
USSR and Eastern Europe	25,300	38,700	52,300	76,900	80,900	84,900	87,200	89,100	90,500
USSR	17,225	26,434	34,620	51,480	54,515	57,400	59,018	59,981	60,100
Eastern Europe	8,070	12,300	17,700	25,400	26,400	27,500	28,200	29,200	30,400
Bulgaria	204	474	919	1,736	1,738	1,830	1,734	1,752	1,982
Czechoslovakia	2,387	2,995	3,933	5,945	5,983	6,341	6,439	6,581	6,714
East Germany	2,714	3,750	4,692	6,272	6,432	6,652	6,728	6,890	7,068
Hungary	551	921	1,090	1,013	834	814	773	750	870
Poland	1,862	2,818	4,516	6,644	7,207	7,457	7,852	8,500	8,743
Romania	351	1,329	2,508	3,786	4,194	4,372	4,690	4,691	5,060
Other									
China	N.A.	2,300	4,200	7,000	N.A.	7,700	9,400	12,000	11,000
Cuba	325	197	202	368	266	172	295	302	N.A.
Yugoslavia	391	955	2,763	5,110	5,644	8,126	8,862	9,161	9,584

<sup>a</sup> Unless otherwise indicated, data are for all motor vehicle tires, excluding aircraft and bicycle tires.<sup>b</sup> Excluding motorcycle tires.<sup>c</sup> Excluding motorcycle, tractor, and agricultural tires.

Table 142

Cement Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
	186	250	318	336	349	364	386	390	384
OECD									
United States	56.06	65.08	67.43	61.82	66.18	71.30	76.20	75.30	67.20
Canada	5.34	7.66	7.28	9.74	9.90	9.94	10.32	11.00	10.34
Japan	22.54	32.49	57.19	65.52	68.71	73.14	84.89	87.80	88.13
Spain	5.23	9.88	16.70	24.10	25.30	28.00	29.30	28.06	28.42
Turkey	2.04	3.24	6.37	10.86	12.34	13.85	15.34	13.79	14.20
European Community	77.4	107	132	129	131	130	132	136	135
Belgium	4.39	5.90	6.73	6.89	7.50	7.76	7.57	7.70	7.48
France	14.35	22.42	29.01	29.71	29.51	28.96	29.06	28.84	28.58
Italy	16.01	20.70	33.08	34.24	36.32	38.21	38.23	39.72	41.77
United Kingdom	13.50	16.98	17.17	16.90	15.78	15.46	15.91	16.14	14.81
West Germany	24.90	34.13	38.32	33.50	34.15	32.24	33.06	35.06	34.25
Other Countries									
Brazil	4.74	5.87	9.00	16.74	17.87	21.13	23.24	24.88	25.40
India	7.84	10.58	13.96	16.24	18.70	19.18	19.63	18.26	17.80
Mexico	3.09	4.30	7.27	11.70	12.70	13.09	14.11	15.14	16.26
Communist Countries									
USSR and Eastern Europe	68.4	104	137	180	186	193	195	190	192
USSR	45.52	72.39	95.25	122.06	124.25	127.06	126.96	123.02	125.00
Eastern Europe	22.9	31.8	42.1	58.1	61.9	65.6	68.2	66.8	67.1
Bulgaria	1.59	2.68	3.67	4.36	4.36	4.66	5.15	5.40	5.36
Czechoslovakia	5.05	5.71	7.40	9.30	9.55	9.75	10.20	10.26	10.55
East Germany	5.03	6.09	7.98	10.66	11.34	12.10	12.52	12.27	12.44
Hungary	1.57	2.38	2.77	3.76	4.30	4.62	4.76	4.85	4.66
Poland	6.60	9.57	12.18	18.54	19.80	21.30	21.65	19.18	18.44
Romania	3.05	5.41	8.13	11.52	12.55	13.12	13.90	14.82	15.61
Other									
China	12.00	16.28	26.60	47.10	49.30	55.65	65.24	73.90	79.86
Modern Plants	9.00	10.90	15.10	19.40	19.70	20.00	23.42	24.73	28.75
Small Plants	3.00	5.38	11.50	27.70	29.60	35.65	41.82	49.17	51.11
Cuba	0.80	0.80	0.74	2.08	2.50	2.65	2.71	2.61	N.A.
North Korea	2.30	2.40	4.00	5.70	4.80	6.00	6.60	7.99	N.A.
Yugoslavia	2.40	3.10	4.40	7.07	7.62	8.01	8.70	9.08	9.32

<sup>a</sup> All types of hydraulic cements used in construction.

Thousand Cubic Meters

Table 143

Lumber Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	176,000	199,000	214,000	198,000	226,000	235,000	238,000	242,000	N.A.
United States	77,697	84,236	81,524	75,717	86,081	89,448	88,859	87,453	75,239
Canada	18,988	25,541	26,734	27,287	36,811	41,696	44,785	44,815	N.A.
Japan	26,734	33,291	42,127	37,362	39,315	38,273	38,867	39,586	36,920
Australia	3,299	3,347	3,235	3,322	3,285	3,276	2,975	2,919	N.A.
Austria	5,004	4,534	5,426	4,940	5,987	6,246	5,975	6,549	N.A.
Finland	8,289	6,919	7,310	5,020	5,850	6,800	7,380	9,035	N.A.
Spain	1,077	1,918	2,250	2,224	2,554	2,188	2,405	2,961	N.A.
Sweden	8,620	10,266	12,246	10,890	11,298	11,150	10,877	11,197	N.A.
Turkey	736	1,355	2,307	2,460	2,944	3,142	3,150	3,150	N.A.
European Community	19,600	21,700	24,100	21,700	24,200	25,400	24,400	26,600	N.A.
France	7,454	8,049	9,263	8,271	8,787	9,327	9,025	9,210	N.A.
Italy	1,710	1,945	2,292	1,639	1,957	2,209	1,983	2,276	N.A.
West Germany	7,739	8,891	9,383	9,028	10,303	10,348	10,011	10,253	N.A.
Other Countries									
Brazil	5,700	5,661	8,035	10,128	11,243	12,643	13,337	14,070	N.A.
India	1,400	2,100	2,600	3,250	3,400	3,550	4,000	4,550	N.A.
Malaysia	1,395	1,859	3,110	3,817	5,217	5,589	5,147	5,147	N.A.
Communist Countries									
USSR and Eastern Europe	124,000	129,000	136,000	137,000	133,000	130,000	127,000	120,000	N.A.
USSR	105,600	111,000	116,400	116,200	113,000	109,500	106,300	100,000	N.A.
Eastern Europe	18,100	18,100	19,100	20,600	20,400	20,400	20,700	20,400	N.A.
Bulgaria	1,136	1,190	1,323	1,432	1,465	1,590	1,499	1,386	N.A.
Czechoslovakia	3,971	3,625	3,639	4,242	4,342	4,399	4,562	4,627	4,776
East Germany	2,826	1,749	1,819	2,051	2,037	2,058	2,069	2,085	N.A.
Hungary	383	457	555	693	770	687	757	735	781
Poland	5,882	6,051	6,471	7,541	7,515	7,426	7,334	6,906	N.A.
Romania	3,928	5,004	5,305	4,660	4,311	4,262	4,465	4,653	N.A.
Other									
China	N.A.	40,000	38,000	46,000	N.A.	50,000	52,000	54,000	54,000
Cuba	N.A.	74	28	56	41	68	73	75	N.A.
Yugoslavia	2,295	2,677	3,044	3,481	3,619	3,962	4,057	4,272	4,206

<sup>a</sup> Excluding railroad cross-ties (sleepers).

Table 144

## Newsprint Production

Thousand Metric Tons

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	12,700	15,100	18,800	17,600	18,800	18,800	20,200	21,100	21,900
United States	1,818	1,978	3,035	3,153	3,199	3,192	3,418	3,685	4,239
Australia	90	95	173	196	205	208	208	208	222
Canada	6,068	7,003	7,996	7,056	8,088	8,160	8,808	8,710	8,626
Finland	781	1,213	1,305	1,248	1,008	984	1,128	1,321	1,345
New Zealand	91	199	214	219	275	276	277	260	N.A.
Norway	226	308	554	436	466	437	464	566	588
Sweden	582	679	1,030	1,188	1,140	1,116	1,260	1,483	1,534
European Community	2,030	2,090	2,170	1,510	1,570	1,540	1,610	1,740	1,830
France	551	450	430	256	260	265	286	282	317
Italy	259	379	311	240	263	234	263	268	271
United Kingdom	753	780	757	316	326	288	319	364	364
West Germany	230	216	408	482	502	539	522	598	593
Other Countries									
South Africa	0	54	160	200	215	244	212	225	N.A.
South Korea	27	45	102	145	155	199	183	180	214
Communist Countries									
USSR and Eastern Europe	678	1,050	1,420	1,660	1,730	1,740	1,800	1,800	N.A.
USSR	434	744	1,101	1,361	1,390	1,388	1,432	1,432	N.A.
Eastern Europe	244	303	319	300	343	347	368	371	N.A.
Czechoslovakia	34	78	81	77	79	79	73	74	70
East Germany	89	94	97	96	104	81	103	103	N.A.
Poland	77	79	88	83	83	89	89	91	91
Romania	44	52	53	44	77	98	103	103	N.A.
Other									
Cuba <sup>a</sup>	N.A.	N.A.	19	32	32	31	36	35	N.A.
Yugoslavia	28	46	75	85	85	96	96	84	52

<sup>a</sup> Printing and writing paper.

Thousand Cubic Meters

Table 145

## Plywood Production

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	12,400	19,800	26,200	25,400	29,100	30,800	30,500	31,900.	N.A.
United States	7,910	12,811	14,078	14,579	16,726	17,981	17,056	18,200	16,000
Canada	1,000	1,702	1,851	2,051	2,442	2,660	2,807	2,510	2,200
Finland	414	545	706	415	491	464	549	639	639
Japan	1,286	2,627	6,922	6,168	7,136	7,476	8,041	8,400	N.A.
Spain	75	131	225	266	290	236	178	134	162
European Community	1,350	1,640	1,840	1,500	1,620	1,540	1,450	1,570	N.A.
France	390	477	643	551	573	568	509	559	560
Italy	150	300	420	400	420	380	350	410	N.A.
West Germany	660	670	569	400	449	443	445	444	432
Other Countries									
Brazil	98	220	342	660	695	698	722	762	N.A.
Malaysia	2	28	197	404	525	565	465	490	N.A.
Philippines	287	257	653	423	416	489	490	503	N.A.
Singapore	N.A.	32	215	334	380	348	482	482	N.A.
South Korea	29	215	847	1,436	1,671	2,289	2,560	2,338	N.A.
Communist Countries									
USSR and Eastern Europe	1,690	2,260	2,600	2,850	2,860	2,870	2,820	2,670	N.A.
USSR	1,354	1,756	2,045	2,196	2,174	2,178	2,122	1,988	N.A.
Eastern Europe	333	506	558	658	681	694	701	684	N.A.
Bulgaria	64	81	71	65	63	64	62	58	57
Czechoslovakia	46	55	57	113	122	120	128	135	N.A.
East Germany	60	67	73	78	85	90	95	82	N.A.
Hungary	22	20	12	5	4	4	4	3	N.A.
Poland	73	83	99	128	132	132	131	128	N.A.
Romania	68	200	246	269	275	284	281	278	N.A.
Other									
Yugoslavia	61	111	103	126	121	133	135	140	117

**Agriculture**



**Table 146** Million Metric Tons**Total Grain Production <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	181.26	183.46	186.72	248.66	257.43	263.77	273.08	298.76	263.64
Australia	10.81	9.68	12.86	17.73	17.43	14.38	25.93	23.13	16.66
Canada	25.39	30.56	26.47	35.23	43.13	40.57	39.79	34.11	39.11
Japan	20.18	18.24	17.00	17.61	15.76	17.47	16.45	15.91	13.18
Spain	7.27	8.86	10.30	14.20	12.76	13.94	16.33	13.82	18.47
Turkey	12.12	12.63	15.66	21.91	24.19	24.06	24.13	25.32	25.78
European Community	<b>68.7</b>	<b>81.1</b>	<b>87.0</b>	<b>96.4</b>	<b>90.9</b>	<b>103</b>	<b>116</b>	<b>114</b>	<b>119</b>
France	23.02	29.05	31.29	35.12	32.32	38.76	44.86	43.73	47.34
Italy	11.98	14.52	16.15	17.15	16.99	14.60	17.67	17.60	17.70
United Kingdom	9.46	13.62	13.01	13.82	13.17	16.63	17.20	17.35	19.14
West Germany	15.06	13.47	16.07	20.08	18.26	20.65	23.94	22.87	23.03
<b>Other Countries</b>									
Argentina	12.57	16.54	19.66	22.79	23.95	21.74	25.35	18.84	25.16
Bangladesh	14.57	15.82	16.86	19.28	17.87	19.72	19.65	18.82	22.15
Brazil	14.61	19.66	22.78	26.19	31.12	30.89	26.91	32.73	32.72
India	78.97	73.06	101.80	117.35	111.98	128.40	132.67	116.92	132.58
Indonesia	15.35	15.42	22.15	25.24	25.87	26.50	29.80	29.66	31.78
Mexico	7.36	11.32	14.99	16.62	16.47	17.95	16.73	14.35	16.22
Pakistan	6.24	4.46	11.75	12.82	13.95	14.80	14.45	16.00	16.61
Thailand	8.38	12.26	15.47	18.41	17.89	15.73	20.78	19.26	21.55
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>173</b>	<b>174</b>	<b>242</b>	<b>213</b>	<b>302</b>	<b>273</b>	<b>320</b>	<b>254</b>	<b>272</b>
USSR <sup>b</sup>	125.56	121.06	186.80	140.12	223.76	195.73	237.39	179.18	189.20
Eastern Europe <sup>c</sup>	<b>47.2</b>	<b>53.3</b>	<b>55.1</b>	<b>73.1</b>	<b>78.0</b>	<b>77.1</b>	<b>82.3</b>	<b>75.2</b>	<b>83.1</b>
Bulgaria <sup>d</sup>	4.97	5.35	6.91	7.88	8.66	7.74	7.69	8.52	7.72
Czechoslovakia	4.84	5.23	7.20	9.28	9.17	10.31	10.95	9.18	10.82
East Germany	6.38	6.73	6.46	8.91	8.19	8.70	9.82	8.89	9.63
Hungary	6.90	7.41	7.62	12.19	11.32	12.28	13.31	11.94	13.75
Poland	14.30	16.01	16.25	19.56	20.86	19.42	21.54	17.34	18.33
Romania	9.83	12.60	10.64	15.27	19.79	18.61	18.98	19.34	22.88

Other											
China <sup>e</sup>	140.60	194.50	242.90	284.00	286.30	282.75	304.75	332.12	318.22		
Cuba <sup>f</sup>	0.41	0.08	0.31	0.36	0.35	0.35	0.36	0.32	N.A.		
North Korea	2.66	3.15	3.50	5.40	5.60	6.00	6.00	6.30	6.30		
Vietnam <sup>g</sup>	N.A.	N.A.	N.A.	11.50	13.60	12.90	12.90	13.70	13.70		
Yugoslavia	10.93	10.58	11.61	15.01	16.20	16.56	13.91	15.63	15.66		

<sup>d</sup> Including pulses.

<sup>e</sup> Data are for the following products, where they are produced: barley, corn, oats, rice, rye, sorghum, and wheat.

<sup>f</sup> Including soybeans, broad beans, and field peas. Tubers are included on a grain equivalent basis of 5 metric tons of tubers to 1 metric ton of grain.

<sup>g</sup> Data reflect only rice production and government collections of corn; total gross output from the combine which includes excess moisture, unripe and damaged kernels, weed seeds, and other trash. For comparison with US or other country production of grains is somewhat higher.

<sup>h</sup> Including corn, manioc, sweet potatoes, and soybeans on a paddy-equivalent basis (1 ton paddy = 0.63 tons of grain or rice).

<sup>i</sup> Including miscellaneous grains.

Table 147

## Wheat Production

Million Metric Tons

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	36.87	35.80	36.78	57.76	58.31	55.42	48.93	58.30	64.28
Australia	7.45	7.07	7.89	11.98	11.82	9.37	18.09	16.12	10.60
Canada	14.11	17.67	9.02	17.08	23.59	19.86	21.14	17.18	19.13
Spain	3.52	4.72	4.13	4.30	4.44	4.06	4.81	4.12	5.90
Turkey	7.00	7.43	10.08	14.83	16.58	16.72	16.77	17.63	18.00
European Community	27.8	35.3	34.8	38.1	39.1	38.5	47.6	46.5	51.4
France	11.01	14.76	12.92	15.01	16.13	17.35	20.94	19.54	23.44
Italy	6.79	9.78	9.69	9.61	9.52	6.35	9.19	8.98	8.91
United Kingdom	3.04	4.17	4.24	4.49	4.74	5.27	6.61	7.18	8.20
West Germany	4.82	4.22	5.66	7.01	6.70	7.24	8.12	8.06	8.10
<b>Other Countries</b>									
Argentina	4.20	6.08	4.92	8.57	11.00	5.30	8.10	8.10	7.80
India	10.32	12.26	20.09	24.10	28.85	29.01	31.75	34.98	32.00
Iran	2.60	2.90	4.26	5.57	6.04	5.52	5.30	5.00	5.00
Pakistan	3.91	4.59	7.29	7.67	8.69	9.14	8.37	9.95	10.76
<b>Communist Countries</b>									
USSR and Eastern Europe	77.2	78.1	119	90.2	126	121	151	113	127
USSR <sup>a</sup>	64.30	59.69	99.73	66.22	96.88	92.20	120.82	90.21	98.10
Eastern Europe	12.9	18.4	19.0	24.0	28.6	28.6	30.2	22.8	29.0
Bulgaria	2.38	2.92	3.03	3.00	3.51	3.38	3.47	3.36	3.84
Czechoslovakia	1.50	1.99	3.17	4.20	4.81	5.21	5.60	3.74	5.40
East Germany	1.46	1.80	2.13	2.74	2.71	2.91	3.15	3.12	3.10
Hungary	1.77	2.45	2.72	4.01	5.15	5.32	5.68	3.70	6.05
Poland	2.30	3.34	4.61	5.21	5.74	5.31	6.03	4.19	4.17
Romania	3.45	5.94	3.36	4.84	6.71	6.43	6.25	4.67	6.42
<b>Other</b>									
China	N.A.	25.00	N.A.	39.00	50.00	N.A.	N.A.	62.75	54.16
Yugoslavia	3.57	3.46	3.79	4.40	5.98	5.60	5.36	4.51	5.09

<sup>a</sup> Measured in bunker weight, that is, gross output from the combine which includes excess moisture, unripe and damaged kernels, weed seeds, and other trash. For comparison with US or other country grain output, an average discount of 11 percent should be applied.

Table 148

Coarse Grains Production <sup>a</sup>

Million Metric Tons

OECD	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States	141.91	144.20	146.14	185.07	193.88	203.84	218.10	234.49	192.74
Canada	11.28	12.89	17.45	18.15	19.54	20.70	18.65	16.93	19.98
Spain	3.39	3.80	5.79	9.52	7.92	9.50	11.12	9.27	12.14
Turkey	4.95	5.05	5.34	6.84	7.36	7.08	7.04	7.34	7.40
European Community	<b>40.2</b>	<b>45.2</b>	<b>51.3</b>	<b>57.3</b>	<b>50.4</b>	<b>63.5</b>	<b>67.9</b>	<b>66.7</b>	<b>66.9</b>
Denmark <sup>b</sup>	3.94	5.17	5.58	5.69	5.28	6.74	6.82	7.08	6.31
France	11.90	14.20	18.28	20.07	16.16	21.39	23.89	24.16	23.88
Italy	4.57	4.23	5.64	6.53	6.57	7.56	7.52	7.52	7.80
United Kingdom	6.42	9.44	8.77	9.33	8.43	11.36	10.59	10.18	10.94
West Germany	10.25	9.25	10.41	13.07	11.56	13.42	15.82	14.81	14.94
Other Countries									
Argentina	8.22	10.30	14.34	13.87	12.64	16.12	16.94	10.47	17.04
Brazil	9.10	11.44	14.29	16.62	18.14	19.83	16.62	20.14	20.46
India	16.64	14.87	18.31	19.90	20.08	20.38	20.09	18.12	19.50
Mexico	5.84	8.96	11.91	13.10	12.64	14.93	13.96	11.62	13.23
South Africa	5.76	5.06	6.67	9.70	7.74	10.16	8.85	11.52	10.23
Communist Countries									
USSR and Eastern Europe	<b>95.3</b>	<b>95.6</b>	<b>122</b>	<b>121</b>	<b>174</b>	<b>150</b>	<b>166</b>	<b>139</b>	<b>142</b>
USSR <sup>c</sup> <sup>d</sup>	61.08	60.79	85.78	71.88	124.87	101.28	114.46	86.58	88.30
Eastern Europe	<b>34.2</b>	<b>34.8</b>	<b>35.9</b>	<b>48.9</b>	<b>49.2</b>	<b>48.3</b>	<b>52.0</b>	<b>52.2</b>	<b>54.0</b>
Bulgaria	2.56	2.39	3.81	4.81	5.11	4.29	4.16	5.09	3.82
Czechoslovakia	3.34	3.24	4.03	5.08	4.36	5.10	5.35	5.44	5.42
East Germany <sup>c</sup>	4.92	4.93	4.32	6.17	5.48	5.78	6.67	5.77	6.53
Hungary	5.08	4.94	4.85	8.11	6.14	6.93	7.62	8.19	7.67
Poland <sup>c</sup>	12.00	12.67	11.64	14.35	15.12	14.11	15.51	13.15	14.16
Romania	6.33	6.61	7.21	10.36	13.04	12.13	12.67	14.61	16.40
Other									
Cuba <sup>e</sup>	0.10	0.03	0.02	0.02	0.02	0.01	0.01	0.01	N.A.
Yugoslavia	7.34	7.10	7.79	10.57	10.20	10.92	8.52	11.09	10.53

<sup>a</sup> Data are for the following products, where they are produced: barley, corn, oats, rye, and sorghum.<sup>b</sup> Excluding corn.<sup>c</sup> Unless otherwise indicated, data include miscellaneous grains.<sup>d</sup> Measured in bunker weight, that is, gross output from the combine, which includes excess moisture, unripe and damaged kernels, weed seeds, and other

trash. For comparison with US or other country grain output, an average discount of 11 percent should be applied.

<sup>e</sup> Corn only. Data reflect government collections only. Total production is somewhat higher.

Table 149  
Thousand Metric TonsRice Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	2,477	3,460	3,801	5,825	5,246	4,501	6,040	5,969	6,625
Japan	16,072	15,515	15,861	17,101	15,292	17,000	15,736	14,948	12,198
European Community	725	607	907	1,050	939	716	988	1,130	1,000
Italy	622	509	819	1,010	907	693	956	1,100	980
<b>Other Countries</b>									
Bangladesh	14,522	15,751	16,733	19,143	17,628	19,441	19,294	18,318	21,321
Brazil	5,392	5,802	5,394	7,782	9,757	8,994	7,600	9,700	10,000
Burma	6,850	8,258	8,162	9,208	9,319	9,462	9,485	8,970	10,360
India	52,011	45,982	63,401	73,352	63,052	79,006	80,824	63,814	81,081
Indonesia	14,953	15,063	19,324	22,340	23,301	23,356	25,772	26,350	28,676
South Korea	4,151	4,770	5,471	6,485	7,202	8,291	7,361	7,729	5,000
Thailand	9,508	11,164	13,570	15,300	15,068	13,921	17,500	15,700	18,000
<b>Communist Countries</b>									
USSR and Eastern Europe	313	683	1,460	2,210	2,110	2,370	2,250	2,570	2,940
USSR	187	583	1,279	2,009	2,001	2,220	2,110	2,394	2,800
Eastern Europe	126	100	176	205	110	150	142	174	145
Bulgaria	32	33	66	68	41	68	61	73	60
Hungary	45	21	45	69	32	35	23	41	25
Romania	49	46	65	68	37	47	58	60	60
<b>Other</b>									
China	N.A.	N.A.	N.A.	N.A.	125,000	129,000	136,900	143,700	139,255
Cuba <sup>b</sup>	306	50	291	338	335	334	344	312	N.A.
Vietnam <sup>c</sup>	4,212	4,600	4,500	4,500	12,100	10,900	10,000	10,700	11,100
Yugoslavia	22	25	32	37	23	36	34	34	40

<sup>a</sup> Rough, or paddy, rice. Data refer to crops harvested in the last half of the year stated, combined with crops harvested in the first half of the following year.

<sup>b</sup> Milled rice. Data reflect government collection only.

<sup>c</sup> Prior to 1976, data for North Vietnam.

Table 150  
Million Metric Tons

## Potato Production

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD	97.2	82.4	84.6	68.0	68.1	77.5	76.4	72.8	69.2
United States	11.68	13.14	14.78	14.62	16.22	16.08	16.57	15.80	13.65
Austria	3.81	2.54	2.70	1.58	1.75	1.35	1.40	1.49	1.36
Canada	2.06	2.11	2.30	2.11	2.34	2.49	2.50	2.76	2.52
Japan	3.59	4.06	3.62	3.26	3.74	3.52	3.32	3.38	3.36
Spain	4.62	4.00	5.30	5.34	5.66	5.88	5.32	5.40	6.07
European Community	61.3	47.5	46.5	32.9	29.3	38.8	37.9	34.7	32.9
France	15.89	11.07	8.90	6.86	4.33	7.80	7.47	7.14	7.21
Italy	3.82	3.55	3.67	2.90	2.94	3.08	2.80	2.96	2.80
Netherlands	3.97	3.24	5.65	4.74	4.78	5.75	6.23	5.94	6.08
United Kingdom	7.27	7.58	7.82	4.55	4.79	6.62	7.33	6.48	6.88
West Germany	24.54	18.09	16.25	10.85	9.81	11.37	10.51	8.75	6.69
Other Countries									
Argentina	2.07	2.49	2.34	1.35	1.53	1.77	1.59	1.69	1.68
India	2.75	3.60	3.91	6.22	7.31	7.17	8.15	9.00	10.50
Communist Countries									
USSR and Eastern Europe	149	152	169	151	152	145	154	163	111
USSR	84.37	88.68	96.78	88.70	85.10	83.65	86.12	90.96	66.90
Eastern Europe	64.3	63.4	72.4	62.0	67.2	61.3	67.8	71.6	43.8
Bulgaria	0.48	0.28	0.37	0.32	0.35	0.38	0.39	0.42	0.32
Czechoslovakia	5.09	3.68	4.79	3.56	4.21	3.76	4.00	3.73	2.71
East Germany	14.82	12.86	13.05	7.67	6.82	10.31	10.78	12.24	9.30
Hungary	3.00	1.76	1.81	1.27	1.09	1.33	1.52	1.09	0.95
Poland	37.90	42.66	50.30	46.43	49.95	41.32	46.65	49.57	26.39
Romania	3.01	2.19	2.06	2.72	4.79	4.21	4.47	4.56	4.14
Other									
China	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	28.00	28.00
Cuba <sup>a</sup>	0.02	0.08	0.08	0.12	0.15	0.14	0.17	0.17	N.A.
Yugoslavia	3.27	2.38	2.96	2.39	2.83	3.03	2.50	2.72	2.42

<sup>a</sup> Data reflect government collections only; the total production is considerably higher.

Table 151  
Thousand Metric TonsSugar Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>b</sup>	3,637	4,871	5,327	5,680	6,163	5,523	4,928	5,217	5,229
Australia <sup>c</sup>	1,441	2,073	2,507	2,930	3,395	3,452	2,978	2,961	3,415
European Community	<b>7,630</b>	<b>7,740</b>	<b>8,580</b>	<b>10,000</b>	<b>10,300</b>	<b>12,000</b>	<b>12,200</b>	<b>12,700</b>	<b>12,500</b>
France	2,267	2,483	2,580	2,981	2,721	3,905	3,719	3,946	4,026
Italy	998	1,242	1,199	1,429	1,758	1,426	1,710	1,793	1,954
United Kingdom	860	967	925	724	657	894	979	1,101	1,110
West Germany	1,877	1,634	2,100	2,571	2,844	3,200	3,119	3,214	2,914
<b>Other Countries <sup>c</sup></b>									
Brazil	3,319	4,614	5,019	6,299	7,236	8,759	7,913	7,362	8,270
India	2,814	3,493	4,634	5,048	5,033	5,019	7,103	6,080	4,546
Mexico	1,530	2,120	2,402	2,636	2,710	2,790	3,131	3,095	2,832
Philippines	1,398	1,659	1,980	2,672	2,984	2,624	2,273	2,390	2,332
South Africa	952	1,014	1,649	1,968	2,113	2,369	2,256	2,143	1,780
<b>Communist Countries</b>									
USSR and Eastern Europe <sup>d</sup>	<b>11,100</b>	<b>16,200</b>	<b>15,300</b>	<b>16,100</b>	<b>14,600</b>	<b>18,200</b>	<b>18,400</b>	<b>16,600</b>	<b>14,900</b>
USSR	6,916	11,997	11,110	11,285	10,053	13,083	13,268	11,573	10,978
Eastern Europe	<b>4,210</b>	<b>4,240</b>	<b>4,160</b>	<b>4,800</b>	<b>4,580</b>	<b>5,150</b>	<b>5,130</b>	<b>4,980</b>	<b>3,880</b>
Bulgaria	186	342	403	343	393	391	422	416	215
Czechoslovakia	958	874	951	913	684	939	986	1,020	841
East Germany	739	618	587	793	725	758	814	855	750
Hungary	414	465	304	335	395	476	539	541	443
Poland	1,484	1,505	1,509	1,857	1,773	1,813	1,763	1,582	1,128
Romania	425	437	410	561	610	775	603	571	500
<b>Other</b>									
China	N.A.	N.A.	N.A.	N.A.	N.A.	1,816	2,267	2,500	2,570
Cuba <sup>e</sup>	5,942	6,156	8,538	6,314	6,156	6,485	7,350	7,992	N.A.
Yugoslavia	243	363	385	571	627	725	755	801	737

<sup>a</sup> Unless otherwise indicated, data are for beet sugar produced in the calendar year. Data are given in terms of the raw value of centrifugal sugar. Refined sugar is equal to approximately 92 percent of raw sugar weight. Centrifugal, as distinguished from noncentrifugal, sugar includes cane and beet sugar produced by the centrifugal process and is the principal type of sugar moving in international trade.

<sup>b</sup> Including cane sugar; excluding data for Puerto Rico.

<sup>c</sup> Cane sugar only.

<sup>d</sup> Including raw cane sugar imported for refining.

<sup>e</sup> Raw cane sugar of 96° polarization. Data are for crop years ending 30 June of the stated year.

**Table 152** Thousand Metric Tons**Fish Catch <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979
<b>OECD</b>								
United States	2,815	2,696	2,810	2,842	3,050	2,980	3,418	3,511
Canada	934	1,262	1,334	993	1,102	1,235	1,366	1,332
Iceland	593	1,199	734	995	986	1,374	1,567	1,645
Japan	6,207	6,929	8,825	9,895	9,994	10,123	10,184	9,966
Norway	1,543	2,312	2,906	2,482	3,361	3,402	2,587	2,652
Spain	970	1,355	1,532	1,512	1,469	1,389	1,373	1,205
European Community	<b>3,580</b>	<b>4,110</b>	<b>4,510</b>	<b>4,840</b>	<b>5,010</b>	<b>4,800</b>	<b>4,830</b>	<b>4,610</b>
Denmark	581	841	1,226	1,767	1,912	1,806	1,740	1,738
France	734	768	764	784	787	744	777	732
United Kingdom	924	1,047	1,076	954	1,013	983	1,016	890
West Germany	674	633	613	442	454	432	412	356
<b>Other Countries</b>								
Chile	340	708	1,200	900	1,379	1,319	1,929	2,633
India	1,161	1,331	1,756	2,266	2,174	2,312	2,306	2,343
Indonesia	761	1,102	1,228	1,382	1,479	1,568	1,642	1,732
Peru	3,727	7,632	12,535	3,448	4,344	2,537	3,369	3,682
Philippines	466	686	1,031	1,443	1,393	1,509	1,495	1,476
Thailand	221	627	1,444	1,553	1,659	2,188	2,095	1,716
<b>Communist Countries</b>								
USSR and Eastern Europe	<b>3,890</b>	<b>6,400</b>	<b>8,810</b>	<b>11,700</b>	<b>11,800</b>	<b>10,900</b>	<b>10,400</b>	<b>10,600</b>
USSR <sup>b</sup>	3,541	5,774	7,828	10,357	10,478	9,651	9,230	9,359
Eastern Europe	<b>349</b>	<b>624</b>	<b>978</b>	<b>1,350</b>	<b>1,300</b>	<b>1,250</b>	<b>1,140</b>	<b>1,230</b>
Bulgaria	8	17	84	151	160	138	150	136
Czechoslovakia	9	11	13	17	17	18	17	17
East Germany	114	229	320	330	282	210	201	227
Hungary	15	20	26	31	32	35	33	33
Poland	187	301	473	679	689	703	594	632
Romania	16	46	62	139	124	149	140	182
<b>Other</b>								
Cuba	31	40	106	143	194	185	213	148
Yugoslavia	31	42	46	57	59	61	63	57

<sup>a</sup> Unless otherwise indicated, data are in terms of live weight for all species of fish and seaweed, crustaceans, and mollusks but exclude aquatic mammals.

<sup>b</sup> Including aquatic mammals.



**Table 153** Million Head**Cattle Numbers <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	96.24	109.00	112.37	132.03	127.98	122.81	116.38	110.86	111.19
Australia	16.50	18.82	22.16	32.79	33.43	31.53	29.33	27.11	26.21
Canada	10.39	12.13	11.63	14.01	14.05	13.71	12.87	12.33	12.40
New Zealand	5.99	6.80	8.78	9.65	9.78	8.74	8.42	8.02	8.15
Turkey <sup>b</sup>	14.30	14.41	14.37	14.41	14.80	15.16	15.55	15.96	16.23
European Community	<b>65.6</b>	<b>68.0</b>	<b>72.9</b>	<b>79.3</b>	<b>77.5</b>	<b>77.1</b>	<b>77.2</b>	<b>77.8</b>	<b>78.0</b>
France	18.74	20.24	21.72	24.33	23.64	23.33	23.36	23.51	23.55
Italy <sup>b</sup>	9.40	9.23	9.61	8.24	8.53	8.81	8.57	8.72	8.81
United Kingdom	11.48	11.69	12.30	14.84	13.92	13.67	13.52	13.49	13.32
West Germany	12.48	13.05	14.29	14.43	14.49	14.50	14.76	15.01	15.05
<b>Other Countries</b>									
Argentina	43.52	46.79	52.26	58.70	61.47	61.89	61.83	59.98	58.74
Brazil <sup>b</sup>	72.89	84.25	78.45	91.00	92.00	91.00	89.00	90.00	93.00
Colombia	15.00	17.00	20.20	23.22	23.82	24.34	25.22	26.16	27.20
Ethiopia	22.45	25.42	26.23	25.88	25.96	25.66	25.86	25.90	26.06
Mexico	17.41	21.08	24.88	28.40	28.90	29.33	29.70	29.30	29.50
South Africa	12.30	12.44	10.13	12.33	12.77	13.06	13.03	13.17	12.58
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>99.4</b>	<b>114</b>	<b>124</b>	<b>142</b>	<b>144</b>	<b>143</b>	<b>146</b>	<b>148</b>	<b>149</b>
USSR	74.16	87.17	95.16	109.12	111.03	110.35	112.69	114.09	115.10
Eastern Europe	<b>25.2</b>	<b>27.2</b>	<b>28.5</b>	<b>33.0</b>	<b>32.7</b>	<b>33.1</b>	<b>33.4</b>	<b>33.7</b>	<b>33.4</b>
Bulgaria	1.28	1.47	1.26	1.55	1.66	1.72	1.74	1.76	1.79
Czechoslovakia	4.30	4.44	4.29	4.57	4.56	4.65	4.76	4.89	4.92
East Germany <sup>c</sup>	4.46	4.68	5.17	5.58	5.53	5.47	5.55	5.57	5.60
Hungary	2.00	1.94	1.93	2.02	1.90	1.89	1.95	1.97	1.95
Poland <sup>c</sup>	8.70	9.95	10.84	13.25	12.88	13.02	13.12	13.04	12.65
Romania	4.45	4.76	5.04	5.98	6.13	6.35	6.31	6.51	6.51
<b>Other</b>									
China <sup>d</sup>	N.A.	84.00	N.A.	N.A.	N.A.	94.00	94.00	95.00	95.00
Yugoslavia	5.25	5.16	4.98	5.81	5.69	5.58	5.50	5.49	5.44

<sup>a</sup> Unless otherwise indicated, data are as of the beginning of the year.<sup>b</sup> Including buffalo.<sup>c</sup> As of 30 June.<sup>d</sup> Cattle, buffalo, oxen, horses, and camels.

**Table 154** Million Head**Hog Numbers <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	59.03	56.11	57.05	54.69	49.27	54.93	56.54	60.36	67.35
Canada	6.05	5.60	6.56	5.90	5.69	6.16	6.65	8.01	9.10
Japan	1.92	3.98	6.34	7.68	7.46	8.13	8.78	9.49	10.00
Spain	6.03	4.02	6.92	7.86	8.58	9.86	10.50	11.00	11.50
European Community	<b>44.9</b>	<b>55.4</b>	<b>65.2</b>	<b>69.7</b>	<b>68.1</b>	<b>70.4</b>	<b>72.7</b>	<b>75.6</b>	<b>75.5</b>
Denmark	6.20	8.20	8.35	8.05	7.58	7.90	8.23	9.22	9.53
France	8.36	9.04	10.46	12.03	11.45	11.51	11.55	11.29	11.10
Italy	4.15	5.41	9.22	8.81	8.89	9.10	9.42	8.92	8.81
Netherlands	2.82	3.69	5.47	7.14	7.06	7.31	8.35	9.37	9.75
United Kingdom	6.01	7.94	8.13	8.84	7.67	8.15	7.73	7.96	7.79
West Germany	14.87	18.15	19.32	20.23	19.80	20.59	21.39	22.64	22.37
<b>Other Countries</b>									
Brazil	46.82	58.70	35.60	35.20	36.00	36.80	37.60	36.00	36.80
Mexico	6.08	8.53	10.30	11.70	12.00	12.30	12.58	12.72	12.75
Philippines	6.57	6.94	6.46	6.60	6.49	5.70	6.91	7.23	7.59
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>92.6</b>	<b>97.2</b>	<b>97.9</b>	<b>132</b>	<b>115</b>	<b>123</b>	<b>132</b>	<b>136</b>	<b>138</b>
USSR	53.37	52.84	56.06	72.27	57.90	63.06	70.51	73.48	73.90
Eastern Europe	<b>39.2</b>	<b>44.4</b>	<b>41.9</b>	<b>59.8</b>	<b>56.7</b>	<b>59.7</b>	<b>62.0</b>	<b>62.7</b>	<b>64.0</b>
Bulgaria	2.27	2.61	1.97	3.42	3.89	3.46	3.40	3.77	3.83
Czechoslovakia	5.69	6.14	5.53	6.72	6.68	6.82	7.51	7.60	7.51
East Germany <sup>b</sup>	8.28	8.76	9.24	11.52	11.50	11.29	11.76	11.73	12.13
Hungary	6.07	7.04	5.70	8.29	6.95	7.85	7.85	8.01	8.36
Poland <sup>c</sup>	12.62	13.78	13.45	21.31	18.85	20.05	21.72	21.22	21.33
Romania	4.30	6.03	5.97	8.57	8.81	10.19	9.74	10.34	10.89
Other									
China	N.A.	168.00	226.00	N.A.	N.A.	291.78	301.29	319.70	305.43
Cuba <sup>d</sup>	N.A.	1.75	0.26	0.60	0.68	0.66	0.70	0.72	N.A.
Yugoslavia	6.21	6.99	5.54	7.68	7.54	7.32	8.45	7.75	7.50

<sup>a</sup> Unless otherwise indicated, data are as of the beginning of the year.<sup>b</sup> As of 30 November of the previous year.<sup>c</sup> As of 30 June.<sup>d</sup> State sector only.

Table 155  
Meat Production <sup>a</sup>  
Thousand Metric Tons

	1960	1965	1970	1975	1976	1977	1978 <sup>b</sup>	1979 <sup>b</sup>	1980 <sup>b</sup>
<b>OECD</b>									
United States	12,808	14,306	22,548	22,986	24,925	25,131	25,248	25,650	26,322
Australia	1,360	1,668	2,166	2,469	2,825	2,999	3,143	2,975	2,657
Canada	1,100	1,340	2,053	2,156	2,284	2,369	2,300	2,385	2,535
Japan	318 <sup>c</sup>	589 <sup>c</sup>	1,398	2,072	2,188	2,301	2,546	2,785	2,928
New Zealand	746	781	1,009	1,059	1,190	1,113	1,186	1,063	1,101
Spain	554 <sup>c</sup>	599 <sup>c</sup>	1,255	1,853	1,907	2,041	2,091	2,212	2,154
European Community	10,200	11,500	16,100	18,200	18,500	18,600	19,400	20,500	21,000
Denmark	760 <sup>c</sup>	901 <sup>c</sup>	1,040	1,080	1,074	1,104	1,148	1,262	1,425
France	2,646 <sup>c</sup>	2,836 <sup>c</sup>	3,814	4,357	4,535	4,403	4,547	4,913	5,053
Italy	1,011 <sup>c</sup>	1,083 <sup>c</sup>	2,054	2,360	2,485	2,668	3,014	3,187	3,229
Netherlands	674 <sup>c</sup>	772 <sup>c</sup>	1,396	1,747	1,793	1,839	1,742	1,873	1,956
United Kingdom	1,719	2,018	2,604	2,852	2,802	2,814	2,863	2,974	2,938
West Germany	2,694 <sup>c</sup>	3,074 <sup>c</sup>	3,749	3,956	4,092	4,084	4,403	4,570	4,603
<b>Other Countries</b>									
Argentina	2,277 <sup>c</sup>	2,445 <sup>c</sup>	3,188	3,103	3,473	3,560	3,843	3,840	3,650
Brazil	1,767 <sup>c</sup>	2,039 <sup>c</sup>	3,015	3,569	3,664	3,996	4,089	4,168	4,494
Mexico	586 <sup>c</sup>	750 <sup>c</sup>	1,024	1,260	1,285	1,434	1,468	1,451	1,482
<b>Communist Countries</b>									
USSR and Eastern Europe <sup>d</sup>	13,900	16,100	19,200	24,600	23,100	24,400	25,800	26,100	25,500
USSR	8,682	9,956	12,278	14,968	13,583	14,722	15,501	15,481	15,100
Eastern Europe	5,260	6,170	6,920	9,660	9,510	9,710	10,300	10,600	10,400
Bulgaria	307	464	476	657	732	704	726	782	786
Czechoslovakia	802	978	1,098	1,349	1,322	1,383	1,529	1,467	1,449
East Germany	1,021	1,126	1,271	1,837	1,808	1,767	1,809	1,824	1,829
Hungary	816	929	1,040	1,422	1,324	1,467	1,525	1,522	1,530
Poland	1,751	2,012	2,182	3,062	2,896	2,883	3,132	3,257	3,094
Romania	561	657	857	1,328	1,426	1,503	1,533	1,760	1,714
<b>Other</b>									
Cuba <sup>e</sup>	N.A.	N.A.	112	105	128	142	138	142	N.A.
Yugoslavia <sup>d</sup>	824	972	1,059	1,329	1,309	1,425	1,570	1,555	1,530

<sup>a</sup> Data are on a carcass weight, bone-in basis, and are for beef, veal, buffalo, pork, mutton, lamb, goat, and poultry where they are produced. Unless otherwise indicated, data exclude horsemeat, rabbit, game, edible offal, and lard.

<sup>b</sup> Non-Communist country data include meat from animals imported for slaughter.

<sup>c</sup> Including horsemeat.

<sup>d</sup> Data are on a slaughter weight, bone-in basis, and include horsemeat, rabbit, game, edible offal, and slaughter fats in addition to the meats listed in footnote a

above. Slaughter weight is roughly 3 percent less than carcass weight because it excludes kidney and leaf fat. As a result of this broader coverage, the meat production data for the USSR and Eastern Europe are above the level attained if the coverage was limited to that shown for other countries.

<sup>e</sup> Data are for deboned beef, pig bellies, and fresh poultry for state production only.

Table 156  
Thousand Metric TonsMilk Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	53,702	56,324	53,268	52,314	54,553	55,635	55,094	55,978	58,253
Australia	6,355	6,969	7,712	6,677	6,421	5,933	5,642	5,833	5,625
Canada	8,385	8,328	8,272	7,751	7,693	7,743	7,532	7,550	7,920
Japan	1,887	3,221	4,760	4,963	5,265	5,735	6,125	6,465	6,502
New Zealand	5,318	6,232	5,907	6,142	6,604	6,635	6,069	6,486	6,833
European Community	<b>83,500</b>	<b>88,400</b>	<b>91,100</b>	<b>97,900</b>	<b>99,600</b>	<b>101,000</b>	<b>105,000</b>	<b>107,000</b>	<b>110,000</b>
Denmark	5,399	5,367	4,630	4,918	5,045	5,138	5,324	5,225	5,120
France	22,652	26,771	27,245	29,686	29,536	30,215	30,850	31,990	33,600
Italy	9,648	9,184	8,936	9,385	9,572	9,110	9,360	9,845	10,000
Netherlands	6,838	7,142	8,239	10,221	10,490	10,612	11,367	11,587	11,810
United Kingdom	12,670	11,386	12,374	13,934	14,419	15,179	15,877	15,915	16,175
West Germany	19,250	21,253	21,856	21,604	22,165	22,523	23,291	23,907	24,850
<b>Other Countries</b>									
Argentina	4,530	4,667	4,196	5,650	5,799	5,303	5,208	5,344	5,550
Brazil	5,045	6,194	7,722	9,970	10,667	9,539	10,500	10,100	10,200
India	N.A.	N.A.	7,630	9,750	9,800	9,800	10,100	10,500	11,500
Mexico	2,473	4,121	3,053	4,980	5,344	6,374	6,670	6,795	6,750
Spain	N.A.	3,993	4,456	5,138	5,374	5,354	5,560	5,661	5,816
<b>Communist Countries</b>									
USSR and Eastern Europe	<b>88,500</b>	<b>101,000</b>	<b>116,000</b>	<b>127,000</b>	<b>127,000</b>	<b>133,000</b>	<b>134,000</b>	<b>133,000</b>	<b>130,000</b>
USSR <sup>b</sup>	61,718	72,563	83,016	90,804	89,675	94,929	94,677	93,341	90,700
Eastern Europe	<b>26,800</b>	<b>28,500</b>	<b>32,500</b>	<b>36,700</b>	<b>37,200</b>	<b>38,300</b>	<b>39,300</b>	<b>39,400</b>	<b>39,800</b>
Bulgaria	745	1,000	1,252	1,436	1,458	1,525	1,600	1,804	1,818
Czechoslovakia	3,830	3,924	4,795	5,463	5,401	5,530	5,642	5,663	5,800
East Germany <sup>c</sup>	5,730	6,371	7,091	8,095	8,092	7,939	8,226	8,198	8,267
Hungary	1,619	1,510	1,682	1,822	1,931	2,142	2,336	2,457	2,430
Poland	12,501	13,345	14,950	16,377	16,521	16,908	17,122	16,959	17,085
Romania <sup>d</sup>	2,358	2,304	2,755	3,458	3,827	4,230	4,368	4,365	4,390
<b>Other</b>									
Cuba <sup>e</sup>	N.A.	N.A.	475	611	621	642	652	654	N.A.
Yugoslavia	2,283	2,303	2,567	3,654	3,846	4,073	4,132	4,286	4,350

<sup>a</sup> Whole milk from cows, unless otherwise indicated.<sup>b</sup> Including milk from sheep, goats, camels, and mares.<sup>c</sup> In terms of 3.5 percent butterfat content.<sup>d</sup> Including milk from buffaloes.<sup>e</sup> State production of pasteurized and raw milk.

Table 157  
Thousand Metric TonsWool Production <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States	146.20	109.30	85.02	58.31	53.35	49.92	46.36	45.49	45.20
Australia	737.20	754.23	923.40	793.48	754.27	702.73	677.02	705.79	720.00
New Zealand	266.50	315.16	333.80	294.10	311.76	302.54	310.80	320.60	360.00
Turkey	43.50	43.00	47.15	52.32	53.92	55.27	55.80	56.00	54.80
Spain	35.10	36.40	33.81	22.15	21.56	21.05	22.19	28.00	28.00
European Community	116	117	93.3	91.9	96.9	94.4	99.1	98.4	98.4
France	29.53	25.40	20.35	15.70	22.10	22.20	22.20	22.20	22.20
Italy	13.38	15.80	11.70	11.60	11.90	12.10	12.10	12.10	12.10
United Kingdom	54.98	58.65	46.30	49.30	47.53	45.81	49.08	48.70	48.70
<b>Other Countries</b>									
Afghanistan	N.A.	N.A.	27.00	25.00	25.40	25.80	26.50	27.00	27.60
Argentina	221.10	220.60	170.00	160.00	156.00	164.00	170.80	172.10	172.00
Brazil	24.10	35.47	31.71	29.10	30.59	27.00	30.00	31.50	31.70
Chile	23.90	25.49	25.50	18.80	18.50	18.81	19.12	19.74	19.70
India	34.11	35.02	36.00	31.00	32.10	34.00	34.50	35.00	35.60
Iran	29.60	34.30	19.60	17.50	16.00	15.70	17.00	17.30	17.60
Iraq	12.70	12.70	15.85	17.70	18.00	18.20	18.40	18.60	18.80
Morocco	15.00	14.00	15.50	20.00	21.00	21.00	21.50	22.00	22.20
Pakistan	14.70	17.00	19.50	28.00	30.74	33.35	36.19	39.29	42.60
South Africa <sup>b</sup>	143.80	159.30	145.60	108.20	107.30	110.50	102.88	98.80	97.60
Uruguay	82.50	84.00	79.65	54.24	62.24	62.55	70.00	83.00	93.00
<b>Communist Countries</b>									
USSR and Eastern Europe	427	436	507	563	535	564	576	585	576
USSR	356.80	356.90	418.90	466.60	435.50	459.00	467.00	472.30	461.70
Eastern Europe	70.5	78.9	88.1	96.7	99.2	105	109	113	114
Bulgaria	21.04	25.80	28.81	34.01	33.84	34.05	34.30	35.10	35.40
Czechoslovakia <sup>c</sup>	2.50	2.03	3.99	3.60	3.60	3.80	4.00	4.10	4.20
East Germany	7.90	8.10	6.90	9.70	10.60	10.40	10.98	11.30	11.50
Hungary	8.20	10.06	9.78	8.39	8.57	9.88	10.81	11.42	12.01
Poland	9.04	7.50	8.94	9.45	10.56	12.32	12.80	13.60	13.60
Romania	21.85	25.41	29.72	31.53	32.02	34.70	35.90	37.30	37.50
Other									
Yugoslavia	13.55	12.56	11.95	10.66	9.90	9.66	10.22	11.00	11.74

<sup>a</sup> Raw wool (grease basis) from sheep, which includes both shorn and pulled wool<sup>b</sup> Including data for Lesotho and Namibia.<sup>c</sup> Purchases.

**Table 158** Thousand Metric Tons**Ginned Cotton Production**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>	<b>3,420</b>	<b>3,770</b>	<b>2,800</b>	<b>2,490</b>	<b>2,960</b>	<b>3,950</b>	<b>3,080</b>	<b>3,890</b>	<b>3,160</b>
United States	3,107	3,260	2,219	1,808	2,303	3,133	2,364	3,185	2,428
Greece	63	75	110	130	119	153	153	106	116
Turkey	169	325	400	480	475	575	477	477	484
<b>Other Countries</b>									
Argentina	124	104	85	140	160	220	173	145	130
Brazil	425	542	594	390	544	461	553	564	568
Colombia	70	65	117	121	149	140	81	125	112
Egypt	478	521	509	382	396	399	438	484	528
Guatemala	21	90	57	102	138	141	165	149	136
India	1,008	997	954	1,160	1,073	1,232	1,349	1,366	1,336
Iran	99	152	154	139	156	178	132	100	80
Mexico	457	567	312	197	227	353	340	328	347
Nicaragua	33	111	78	109	118	121	112	22	76
Pakistan	304	417	542	514	435	575	473	752	672
Sudan	114	164	245	108	159	198	139	114	101
Syria	111	180	150	158	156	151	144	128	119
<b>Communist Countries</b>									
USSR and Eastern Europe	1,480	1,940	2,360	2,690	2,820	2,980	2,900	3,120	3,390
USSR	1,458	1,925	2,343	2,674	2,815	2,978	2,890	3,115	3,386
Eastern Europe <sup>a</sup>	23	16	18	12	1	4	5	6	6
Bulgaria	23	16	18	11	1	4	5	6	6
Romania	N.A.	N.A.	N.A.	1	Negl.	Negl.	Negl.	Negl.	Negl.
<b>Other</b>									
China	900	1,650	2,000	2,400	2,300	2,049	2,167	2,207	2,707
Yugoslavia <sup>a</sup>	2	2	4	2	2	1	1	Negl.	Negl.

<sup>a</sup> Data are for the crop year beginning 1 August of the stated year.

Table 159 Kilograms per Hectare of Arable Land <sup>a</sup>

## Mineral Fertilizer Consumption, Nutrient Content

	1960/61	1965/66	1970/71	1975/76	1976/77	1977/78	1978/79	1979/80
OECD <sup>b</sup>								
United States	38.9	63.0	80.9	90.0	106.5	99.5	106.10	108.0
Australia	21.2	29.2	22.2	15.9	23.5	24.5	27.7	30.0
Canada	8.6	16.3	18.5	29.8	31.8	34.3	40.9	41.0
Japan	N.A.	332.2	372.6	319.3	430.5	428.1	449.6	474.0
Spain	31.6	38.0	59.3	69.3	82.0	68.5	78.7	82.0
Turkey	1.5	5.7	15.7	29.8	46.3	46.5	51.8	52.0
European Community								
Belgium-Luxembourg	N.A.	N.A.	564.8	540.4	517.8	532.8	529.6	514.0
Denmark	151.1	182.3	223.4	239.4	243.6	261.1	258.7	262.0
France	102.4	150.9	243.5	246.7	269.1	277.6	297.3	312.0
Ireland	124.8	172.1	365.0	410.7	489.7	619.4	681.4	603.0
Italy	51.5	70.7	89.6	121.0	105.4	140.9	180.5	190.0
Netherlands	456.1	580.8	749.3	750.7	758.0	737.3	743.3	751.0
United Kingdom	183.3	206.5	259.9	262.9	273.8	287.6	296.1	319.0
West Germany	266.2	348.8	399.6	385.5	423.1	422.0	428.6	448.0
Other Countries								
Brazil	N.A.	8.2	28.3	52.3	63.0	77.4	79.1	87.0
India	2.3	4.7	13.2	16.5	20.2	25.3	26.7	30.0
Communist Countries								
USSR and Eastern Europe								
USSR <sup>c d</sup>	11.2	26.5	44.3	74.3	76.4	77.6	79.2	74.7
Eastern Europe <sup>b</sup>								
Bulgaria	33.8	79.1	141.1	156.5	152.0	171.9	171.9	191.0
Czechoslovakia <sup>e</sup>	91.4	166.3	240.4	314.7	319.7	310.7	333.4	333.0
East Germany	197.4	262.2	310.7	361.5	352.9	332.0	331.4	325.0
Hungary	29.5	63.3	149.7	276.3	253.7	278.7	284.8	278.0
Poland	49.0	83.1	167.8	242.4	239.0	241.0	246.2	225.0
Romania	8.1	25.4	56.5	114.0	108.8	107.1	140.4	136.0

Other										
Albania	N.A.	15.3	78.8	100.6	109.1	118.3	126.0	136.0		
China <sup>c</sup>	4.6	13.7	27.5	44.7	40.3	58.9	73.0	127.8		
North Korea	N.A.	81.5	165.0	N.A.	N.A.	N.A.	N.A.	N.A.		
Yugoslavia	27.9	54.8	77.0	89.6	92.2	100.9	107.9	110.0		

<sup>a</sup> Including land under temporary crops, gardens, fallow or idle land, and permanent crops such as orchards and vineyards, unless otherwise indicated.

<sup>b</sup> Data are "fertilizer years"—in general, the year beginning 1 July.

<sup>c</sup> Including phosphate rock; excluding livestock phosphates. Data indicate the quantity supplied to agriculture.



Thousand Metric Tons of N

Table 160

## Nitrogen Fertilizer Consumption, Nutrient Content

	1960/61	1965/66	1970/71	1975/76	1976/77	1977/78	1978/79	1979/80
OECD <sup>a</sup>								
United States	2,749	4,832	7,379	9,445	9,659	9,040	9,720	10,341
Canada	91	218	292	556	599	706	835	807
Japan	753	787	872	653	702	716	723	777
Spain	275	385	578	722	830	788	871	908
Turkey	25	72	243	482	591	666	774	770
European Community	2,450	3,580	4,940	5,830	6,080	6,390	6,880	7,320
France	565	871	1,453	1,708	1,815	1,832	1,978	2,135
Italy	323	462	594	724	700	817	1,043	1,107
United Kingdom	463	690	801	1,045	1,110	1,177	1,222	1,314
West Germany	618	874	1,131	1,228	1,323	1,325	1,354	1,478
Other Countries <sup>a</sup>								
India	296	541	1,487	1,909	2,352	2,813	2,986	3,452
Mexico	155	264	438	732	830	794	752	806
Pakistan	N.A.	69	252	444	511	554	684	806
Communist Countries								
USSR and Eastern Europe <sup>b</sup>	1,600	3,910	7,520	11,400	11,300	11,600	12,100	11,900
USSR	769	2,282	4,605	7,339	7,252	7,522	7,658	7,467
Eastern Europe	832	1,630	2,920	4,060	4,050	4,100	4,430	4,450
Bulgaria	101	219	379	380	348	363	376	421
Czechoslovakia	143	263	413	532	582	601	628	630
East Germany	235	414	511	678	755	771	784	748
Hungary	75	180	391	536	522	582	570	570
Poland <sup>a</sup>	251	387	785	1,143	1,228	1,213	1,250	1,297
Romania	27	165	438	788	612	571	821	786
Other								
Albania	5	2	27	36	45	50	55	N.A.
China	614	1,830	3,923	6,116	5,240	7,739	9,255	9,273
North Korea	N.A.	115	270	414	N.A.	N.A.	N.A.	N.A.
Yugoslavia	109	166	294	360	382	402	425	440

<sup>a</sup> Data are "fertilizer years"—in general, the year beginning 1 July.<sup>b</sup> Data indicate the quantity supplied to agriculture.

**Table 161**Thousand Metric Tons of P<sub>2</sub>O<sub>5</sub>**Phosphate Fertilizer Consumption, Nutrient Content**

	1960/61	1965/66	1970/71	1975/76	1976/77	1977/78	1978/79	1979/80
<b>OECD <sup>a</sup></b>								
United States	2,488	3,522	4,358	4,742	5,107	4,623	5,086	4,891
Australia	572	954	743	490	739	784	865	934
Canada	169	334	326	503	512	561	630	626
Japan	491	548	656	623	737	747	775	831
New Zealand	225	342	321	386	371	398	415	416
Spain	279	306	432	422	557	376	461	472
Turkey	12	69	176	389	522	614	654	671
European Community	<b>2,740</b>	<b>3,440</b>	<b>4,350</b>	<b>3,790</b>	<b>4,070</b>	<b>4,300</b>	<b>4,610</b>	<b>4,660</b>
France	877	1,259	1,809	1,664	1,796	1,840	1,950	1,984
Italy	379	453	518	490	483	651	812	831
United Kingdom	426	422	543	391	408	416	425	460
West Germany	652	819	913	780	887	873	906	913
<b>Other Countries <sup>a</sup></b>								
Brazil	77	87	377	1,014	1,380	1,546	1,520	1,676
India	56	134	462	374	650	783	965	1,015
<b>1960</b>	<b>1965</b>	<b>1970</b>	<b>1975</b>	<b>1976</b>	<b>1977</b>	<b>1978</b>	<b>1979</b>	<b>1979</b>
<b>Communist Countries</b>								
USSR and Eastern Europe	<b>1,800</b>	<b>3,380</b>	<b>5,150</b>	<b>7,530</b>	<b>7,810</b>	<b>8,100</b>	<b>8,410</b>	<b>8,620</b>
USSR <sup>b c</sup>	1,088	2,091	3,133	4,728	4,903	5,104	5,360	5,480
Eastern Europe <sup>a</sup>	<b>716</b>	<b>1,290</b>	<b>2,020</b>	<b>2,800</b>	<b>2,910</b>	<b>3,000</b>	<b>3,050</b>	<b>3,140</b>
Bulgaria	50	132	235	250	253	331	329	341
Czechoslovakia <sup>d</sup>	150	268	325	456	459	436	465	491
East Germany	218	313	410	441	425	427	431	416
Hungary	66	125	217	429	371	405	410	430
Poland	180	324	595	887	947	933	948	939
Romania	52	127	235	338	454	466	465	519
<b>Other</b>								
Albania	2	5	18	25	22	21	24	N.A.
China <sup>b</sup>	99	307	330	693	634	1,076	1,470	1,833
North Korea	N.A.	43	50	161	N.A.	N.A.	N.A.	N.A.
Yugoslavia	71	151	182	197	188	205	220	220

<sup>a</sup> Data are "fertilizer years"—in general, the year beginning 1 July.<sup>c</sup> Data indicate the quantity supplied to agriculture.<sup>d</sup> Including phosphate rock.<sup>b</sup> Data are for soluble phosphate fertilizers and for ground phosphate rock used for direct application.

Thousand Metric Tons of K<sub>2</sub>O

Table 162

## Potassium Fertilizer Consumption, Nutrient Content

	1960/61	1965/66	1970/71	1975/76	1976/77	1977/78	1978/79	1979/80
<b>OECD <sup>a</sup></b>								
United States	1,967	2,922	3,839	4,726	5,292	5,013	5,665	5,589
Japan	600	613	610	525	647	661	723	736
Spain	95	92	206	258	308	247	288	302
European Community	<b>2,850</b>	<b>3,330</b>	<b>3,990</b>	<b>3,640</b>	<b>3,960</b>	<b>4,120</b>	<b>4,340</b>	<b>4,500</b>
France	750	970	1,389	1,314	1,494	1,558	1,690	1,786
Italy	104	168	225	276	252	327	384	417
United Kingdom	450	436	535	384	411	416	426	461
West Germany	1,006	1,190	1,185	1,099	1,195	1,183	1,178	1,206
<b>Other Countries <sup>a</sup></b>								
Brazil	106	100	306	558	722	963	991	1,085
India	28	90	228	227	377	483	560	546
<b>1960</b>	<b>1965</b>	<b>1970</b>	<b>1975</b>	<b>1976</b>	<b>1977</b>	<b>1978</b>	<b>1979</b>	
<b>Communist Countries</b>								
USSR and Eastern Europe	<b>1,830</b>	<b>3,310</b>	<b>5,000</b>	<b>8,680</b>	<b>8,960</b>	<b>8,570</b>	<b>8,640</b>	<b>7,600</b>
USSR <sup>b</sup>	766	1,891	2,574	5,176	5,577	5,400	5,394	4,411
Eastern Europe <sup>a</sup>	<b>1,060</b>	<b>1,420</b>	<b>2,420</b>	<b>3,510</b>	<b>3,380</b>	<b>3,170</b>	<b>3,250</b>	<b>3,190</b>
Bulgaria	6	10	25	50	56	48	33	58
Czechoslovakia	217	363	489	696	634	597	656	624
East Germany	497	586	614	707	624	472	455	549
Hungary	27	53	229	553	495	524	560	501
Poland	313	396	1,036	1,431	1,496	1,440	1,408	1,332
Romania	3	12	28	71	78	91	137	126
Other								
Albania	1	1	2	2	4	8	5	N.A.
China	0	5	12	112	14	66	233	176
Yugoslavia	103	138	156	163	168	195	210	210

<sup>a</sup> Data are "fertilizer years"—in general, the year beginning 1 July.<sup>b</sup> Data indicate the quantity supplied to agriculture.

Transportation

**Table 163****Railroad Freight <sup>a</sup>**

Billion Metric Ton-Kilometers

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>b</sup>	868.5	1,052.7	1,141.0	1,122.7	1,184.1	1,231.0	1,280.0	1,350.0	1,360.0
Canada	95.5	127.1	158.0	197.2	202.2	212.4	215.4	221.9	226.9
Japan	53.4	57.3	63.4	47.1	47.5	41.3	40.3	42.9	39.6
European Community	168	175	201	168	179	172	174	189	185
France	56.9	64.6	70.4	64.0	69.9	66.2	67.3	70.7	69.5
Italy <sup>c</sup>	15.9	15.3	18.0	14.9	16.4	17.6	16.6	17.7	18.0
United Kingdom <sup>d</sup>	30.5	25.2	26.8	20.9	20.6	20.1	20.0	19.9	17.6
West Germany	52.3	57.1	71.3	55.1	59.2	55.8	57.3	66.2	65.3
<b>Other Countries</b>									
India <sup>e</sup> <sup>f</sup>	87.8	116.8	127.4	148.2	156.8	162.7	154.8	158.7	147.3
South Africa <sup>e</sup> <sup>g</sup>	30.8	42.7	57.2	61.9	65.1	69.3	80.2	84.1	96.8
<b>Communist Countries</b>									
USSR and Eastern Europe	1,690	2,180	2,770	3,580	3,650	3,700	3,800	3,720	N.A.
USSR	1,504.3	1,950.2	2,494.7	3,236.5	3,295.4	3,330.9	3,429.4	3,349.3	3,435.0
Eastern Europe	183	230	278	347	355	364	372	375	N.A.
Bulgaria	7.0	10.8	13.9	17.3	17.1	17.1	17.1	17.7	N.A.
Czechoslovakia	43.9	53.2	55.9	62.7	64.5	64.8	65.3	66.5	66.1
East Germany	32.9	38.9	41.5	49.7	51.8	52.2	53.0	54.4	54.7
Hungary	13.3	17.3	19.8	23.5	23.2	24.2	24.5	24.7	24.4
Poland	66.5	81.0	99.3	129.2	130.9	135.4	138.1	135.4	135.4
Romania	19.8	31.0	48.0	64.8	67.6	70.0	73.7	76.0	N.A.
<b>Other</b>									
China	241.4	201.1	284.7	417.7	408.1	455.7	533.3	558.8	571.7
North Korea	9.1	10.5	14.3	24.3	26.4	28.6	30.6	N.A.	N.A.

<sup>a</sup> Excluding urban systems; plantation, forest, mine, industrial plant, underground, funicular, and cable railroads; and short lines of little importance. Unless otherwise indicated, data are for the state or principal railroad system and include all goods and livestock carried during the calendar year and exclude service traffic, mail, and nonrevenue government stores. Freight traffic carried on more than one railroad line within a country is counted only once. Foreign trade freight traffic carried through more than one country, however, is counted in each country. Data for the United States include express and mail and are specifically for revenue and nonrevenue freight traffic for a more realistic comparison with Soviet methods of reporting.

<sup>b</sup> Including secondary or private railroads operating as common carriers.  
<sup>c</sup> Excluding livestock.

<sup>d</sup> Excluding data for Northern Ireland.

<sup>e</sup> Including mail and passenger baggage. Data are for the year beginning 1 April of the stated year.

<sup>f</sup> Including service traffic.

<sup>g</sup> Including Namibia.

Table 164  
Million Metric TonsRailroad Freight <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>b</sup>	1,180.5	1,341.7	1,426.3	1,368.5	1,440.7	1,499.2	1,556.9	1,637.3	1,645.0
Canada <sup>b</sup>	161.2	204.4	211.2	252.4	256.3	246.0	262.0	270.0	276.0
<b>European Community</b>									
France	227.0	238.7	260.0	228.0	235.0	222.0	222.0	233.0	229.0
United Kingdom <sup>c</sup>	253.1	232.2	209.0	176.0	178.0	170.0	171.0	169.0	150.0
West Germany <sup>b d</sup>	429.2	423.1	392.6	328.7	342.3	324.0	337.3	371.9	367.0
<b>Communist Countries</b>									
USSR and Eastern Europe	2,820	3,520	4,140	5,080	5,140	5,240	5,310	5,230	N.A.
USSR	1,884.9	2,415.3	2,896.0	3,621.1	3,654.8	3,723.4	3,776.4	3,687.8	3,728.0
Eastern Europe	931	1,110	1,240	1,460	1,480	1,510	1,540	1,540	N.A.
Bulgaria	38.4	56.0	68.2	78.8	76.6	75.2	75.0	70.5	73.2
Czechoslovakia	194.1	218.5	236.9	271.4	275.5	274.3	278.5	283.3	286.2
East Germany	237.8	260.4	262.9	289.0	295.7	298.6	299.7	302.5	304.3
Hungary <sup>c</sup>	96.0	114.8	117.4	131.7	131.5	134.5	134.9	134.1	129.8
Poland	286.9	341.3	382.3	464.2	465.2	481.1	489.4	480.0	482.0
Romania	77.5	114.4	171.3	228.3	238.0	247.9	259.6	272.9	N.A.
<b>Other</b>									
China	492.0	408.0	575.0	840.0	820.0	915.0	1,070.0	1,120.0	1,145.0
Cuba	N.A.	10.0	11.7	10.9	11.3	13.6	13.5	13.5	N.A.
North Korea	38.5	52.0	68.0	106.4	115.0	124.4	133.0	N.A.	N.A.

<sup>a</sup> Excluding urban systems; plantation, forest, mine, industrial plant, underground, funicular, and cable railroads; and short lines of little importance. Unless otherwise indicated, data are for the state or principal railroad system and include all goods and livestock carried during the calendar year and exclude service traffic, mail, and nonrevenue government stores. Freight traffic carried on more than one railroad line within a country is counted only once. Foreign trade freight traffic carried through more than one country, however, is counted in each country. Data for the United States are in tons originated, thus giving a more realistic comparison with European methods of reporting.

<sup>b</sup> Including secondary or private railroads operating as common carriers.

<sup>c</sup> Including data for Northern Ireland.

<sup>d</sup> Including service traffic.

<sup>e</sup> Including performance of railroads owned jointly by Hungary and Austria within Hungary.

Table 165  
Billion Metric Ton-Kilometers

## Motor Vehicle Freight

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>a</sup>	323.85	589.27	675.85	744.75	836.61	910.43	987.53	1,030.18	926.84
Japan	20.80	48.39	135.92	129.70	132.62	143.10	156.06	172.89	178.18
<b>Communist Countries <sup>b</sup></b>									
USSR and Eastern Europe	119	175	278	433	461	487	517	534	N.A.
USSR	98.52	143.08	220.83	337.93	355.13	373.33	395.98	409.60	431.40
Eastern Europe	20.0	31.6	57.0	94.7	106	114	121	125	N.A.
Bulgaria	2.04	3.82	7.90	12.39	15.00	15.50	16.16	16.08	16.05
Czechoslovakia	5.11	6.98	10.09	15.02	16.29	17.31	18.74	20.08	20.57
East Germany	5.00	7.21	12.23	16.69	18.66	20.05	21.23	21.57	21.70
Hungary	N.A.	2.73	5.82	8.73	9.44	10.44	11.46	11.70	11.22
Poland	5.69	8.38	15.76	32.60	36.78	40.28	42.60	43.87	44.09
Romania	0.94	2.53	5.16	9.29	9.86	10.00	10.46	11.48	N.A.
<b>Other</b>									
China	N.A.	N.A.	16.10	21.60	22.40	25.09	27.40	26.80	27.50

<sup>a</sup> Total traffic for all urban streets and rural roads.<sup>b</sup> Including traffic by state automotive transport organizations and by cooperatives; branch enterprises; and transport units of industries, plants, offices, and the like.

**Table 166****Motor Vehicle Freight <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>Communist Countries</b>									
USSR and Eastern Europe	9,920	12,900	17,800	25,900	26,900	27,800	29,100	29,100	N.A.
USSR	8,493	10,746	14,623	20,914	21,591	22,223	23,200	23,175	24,101
Eastern Europe	1,430	2,140	3,170	4,970	5,350	5,670	5,870	5,960	N.A.
Bulgaria	128	281	493	724	765	815	834	848	846
Czechoslovakia	428	578	703	997	1,048	1,083	1,130	1,171	1,252
East Germany	270	346	464	588	674	714	741	730	735
Hungary	135	239	407	501	523	564	591	598	590
Poland	408	569	863	1,743	1,902	2,039	2,109	2,193	2,199
Romania	57	131	240	419	442	458	462	415	N.A.
Other									
China	N.A.	N.A.	342	459	477	534	583	570	585
Cuba <sup>b</sup>	N.A.	4	7	40	50	52	58	61	N.A.

<sup>a</sup> Including traffic by state automotive transport organizations and by cooperatives; branch enterprises; and transport units of industries, plants, offices, and the like.

<sup>b</sup> State transport only.



**Table 167**  
**Inland Water Freight**  
Billion Metric Ton-Kilometers

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>a</sup>	123.00	162.55	229.21	265.16	289.42	296.44	307.48	319.01	N.A.
European Community									
France	10.77	12.51	14.18	11.90	12.16	11.27	11.59	11.90	N.A.
Netherlands	20.02	24.07	30.74	29.60	30.95	32.13	34.46	33.47	N.A.
West Germany	40.39	43.31	48.81	47.56	45.80	49.25	51.49	50.99	N.A.
<b>Communist Countries</b>									
USSR and Eastern Europe	107	143	186	234	235	244	258	247	N.A.
USSR	99.60	133.93	173.98	221.71	222.73	230.65	243.65	232.66	244.70
Eastern Europe	7.32	9.07	11.7	12.5	12.3	13.5	14.7	14.0	N.A.
Bulgaria	0.62	1.06	1.83	2.39	2.39	2.45	2.45	2.62	2.61
Czechoslovakia	1.96	2.17	2.43	2.58	2.57	2.71	3.20	3.36	3.59
East Germany	1.90	1.86	2.11	2.02	1.64	2.22	2.27	1.93	N.A.
Hungary	1.08	1.34	1.60	1.47	1.50	1.71	1.87	1.84	2.06
Poland	0.90	1.41	2.36	1.95	2.35	2.34	2.65	2.04	2.33
Romania	0.86	1.22	1.35	2.08	1.86	2.05	2.29	2.18	N.A.

<sup>a</sup> Internal, intraport, and local water traffic, excluding Great Lakes traffic. For 1979, coastwise and foreign trade traffic within US waters together amounted to 117 billion metric ton-kilometers. In the same year, traffic on the Great Lakes amounted to 115 billion metric ton-kilometers of domestic trade and 63 billion metric ton-kilometers of US foreign trade.

Table 168

## Inland Water Freight

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States <sup>a</sup>	358.56	428.63	502.22	528.17	551.30	555.33	566.10	569.79	N.A.
European Community									
France	68.05	89.76	110.35	94.58	93.78	91.20	91.56	92.86	N.A.
Netherlands	149.67	193.99	241.44	235.80	260.31	272.62	277.61	268.29	N.A.
West Germany	171.36	195.69	240.00	227.30	230.03	232.53	246.31	246.49	N.A.
Communist Countries									
USSR and Eastern Europe	235	298	395	524	536	576	609	602	N.A.
USSR	210.32	269.44	357.80	475.50	484.90	520.60	546.20	537.20	568.00
Eastern Europe	24.9	28.4	36.8	48.7	50.6	55.6	62.3	64.8	N.A.
Bulgaria	1.56	2.32	3.69	4.41	4.42	4.57	4.68	4.89	4.93
Czechoslovakia	3.53	4.06	4.46	5.65	5.87	6.42	7.88	8.79	10.46
East Germany	12.63	12.13	13.66	14.59	13.94	15.10	15.56	14.80	N.A.
Hungary	2.30	2.40	2.78	3.04	3.03	3.40	3.50	3.51	3.61
Poland	2.95	4.68	8.84	14.89	16.62	19.14	22.42	23.15	22.20
Romania	1.91	2.86	3.40	6.10	6.74	6.97	8.29	9.69	N.A.
Other									
Cuba <sup>b</sup>	N.A.	0.37 <sup>c</sup>	0.93 <sup>c</sup>	4.83 <sup>d</sup>	4.41 <sup>d</sup>	4.45 <sup>d</sup>	4.75 <sup>d</sup>	5.04 <sup>d</sup>	N.A.

<sup>a</sup> Internal, intraport, and local water traffic, excluding Great Lakes traffic.<sup>b</sup> Coastal freight.<sup>c</sup> Transported by Flota Propia.<sup>d</sup> Transported by Flota Propia and companion boats.

**Table 169****Ocean Freight <sup>a</sup>**

Billion Metric Ton-Kilometers

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>Communist Countries</b>									
USSR and Eastern Europe	189	503	922	1,150	1,220	1,230	1,320	1,320	N.A.
USSR <sup>b</sup>	131.5	388.8	656.1	736.2	762.1	772.6	827.6	851.1	835.0
Eastern Europe	57.7	114	266	410	455	459	492	471	N.A.
Bulgaria <sup>c</sup>	2.5	9.1	38.9	42.2	41.9	43.3	49.4	60.8	62.5
Czechoslovakia	7.5	8.3	10.5	12.0	12.4	13.9	14.2	14.6	N.A.
East Germany <sup>c</sup>	10.5	30.2	69.7	79.7	82.7	70.4	62.8	65.7	N.A.
Hungary <sup>d</sup>	1.3	1.7	2.7	4.0	4.2	6.0	6.6	6.7	7.5
Poland <sup>c e</sup>	34.8	56.4	106.6	206.1	250.3	262.7	298.9	250.9	257.4
Romania	1.1	8.4	37.5	66.3	63.5	62.3	60.1	72.2	N.A.

<sup>a</sup> Unless otherwise indicated, data are for international shipping and include the <sup>a</sup> Including Danube River traffic.performance of ships of less than 1,000 gross register tons. <sup>c</sup> Possibly excluding the performance of some ships flying the Polish flag but under<sup>b</sup> Including Caspian Sea, Danube River, and domestic coastal and intercoastal traffic. control of the Chinese-Polish Shipbrokers Corporation.<sup>c</sup> Including coastal traffic.**Table 170****Air Passengers**

Billion Passenger-Kilometers

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>a</sup>	62.5	110.5	212.0	262.0	288.1	311.0	365.3	421.6	405.9
Canada	4.3	7.6	15.4	25.0	26.0	27.3	29.5	34.6	36.2
Japan	1.1	4.6	15.0	30.1	32.3	39.0	43.9	50.1	51.6
European Community									
France	5.2	7.5	13.6	23.3	25.2	27.3	30.2	32.8	34.1
United Kingdom	7.3	10.7	19.0	30.2	34.0	35.6	45.2	52.6	56.0
<b>Communist Countries</b>									
USSR	12.1	38.1	78.2	122.6	130.8	127.5	140.1	151.0	160.6

<sup>a</sup> Revenue passenger-kilometers flown on scheduled service of certificated route air carriers.

**Table 171** Million Metric Ton-Kilometers**Air Freight <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States <sup>b</sup>	1,377	3,363	7,277	8,603	9,067	9,598	10,201	11,040	10,938
Canada	66	156	425	628	682	671	730	800	820
Japan	24	114	426	920 <sup>c</sup>	1,103 <sup>c</sup>	1,230 <sup>d</sup>	1,440 <sup>d</sup>	1,720 <sup>d</sup>	1,980 <sup>d</sup>
European Community									
France	152	232	542	1,086	1,380	1,664	1,810	2,031	2,093
Netherlands	117	212	393	617	663	755	823	913	996
United Kingdom	181	370	617	933	1,015	1,148	1,310 <sup>e</sup>	1,410 <sup>e</sup>	1,550 <sup>e</sup>
West Germany	41	157	523	974	1,098	1,269	1,411	1,586	1,585
Communist Countries									
USSR	563	1,338	1,877	2,590	2,710	2,800	2,860	2,910	3,090

<sup>a</sup> Express, freight, and mail traffic.<sup>b</sup> Revenue ton-kilometers flown on scheduled service of certificated route air carriers.<sup>c</sup> Japan Air Lines data only.<sup>d</sup> Japan Air Lines and Japan-Asia Airways.<sup>e</sup> Excluding airlines based in the UK territories and dependencies.**Table 172** Units**Civil Aircraft Inventory <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
United States <sup>b</sup>									
Jet	424	1,037	2,510	2,374	2,384	2,402	2,477	2,594	2,646
Turboprop	1,418	1,067	153	117	103	68	65	60	31
USSR <sup>c</sup>									
Jet	191	227	430	1,074	1,194	1,369	1,570	1,714	1,850
Turboprop	174	555	1,238	1,496	1,580	1,664	1,766	1,865	1,920

<sup>a</sup> Data exclude light aircraft. No attempt has been made to standardize comparisons of the US and Soviet aircraft inventories in terms of capacity for passenger-cargo carrying and/or range capability.<sup>b</sup> Large aircraft only. Data for commuters and all cargo operators not available prior to 1979. This data refers to certificate route carriers, supplementals, and commercial operators.<sup>c</sup> Data basically represent the inventory of Aeroflot—the Soviet civil airline.

Table 173  
Billion Metric Ton-Kilometers

## Petroleum Pipelines

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States	333.8	447.3	629.2	740.2	751.9	797.1	855.6	883.3	915.0
Communist Countries									
USSR and Eastern Europe	N.A.	155	300	693	829	959	1,090	1,180	N.A.
USSR	51.2	146.7	281.7	665.9	794.6	922.4	1,049.1	1,140.7	1,216.0
Eastern Europe	N.A.	7.9	18.1	26.7	34.3	36.9	38.9	39.5	N.A.
Czechoslovakia	N.A.	3.2	6.4	4.4	8.7	9.0	9.4	9.6	N.A.
East Germany	0	0.1	2.2	4.3	4.3	4.6	4.7	4.9	N.A.
Hungary	0.1	0.3	0.7	2.5	2.8	2.9	3.1	3.4	3.6
Poland	N.A.	3.2	7.0	12.7	14.7	16.3	16.9	16.8	17.1
Romania	1.0	1.1	1.8	2.8	3.8	4.1	4.8	4.8	N.A.

Table 174  
Million Metric Tons Carried

## Petroleum Pipelines

	1960	1965	1970	1975	1976	1977	1978	1979	1980
OECD									
United States <sup>a</sup>	414.7	554.9	784.6	862.9	864.2	925.3	963.3	982.6	1,020.0
Communist Countries									
USSR and Eastern Europe	N.A.	254	402	604	652	685	725	750	N.A.
USSR	129.9	225.7	339.9	498.3	531.7	558.9	588.7	609.0	630.0
Eastern Europe	N.A.	28.0	61.8	106	120	126	136	144	N.A.
Czechoslovakia	N.A.	7.0	13.4	14.9	17.2	17.7	18.6	18.9	N.A.
East Germany	0	3.8	15.4	32.1	35.3	38.1	40.2	40.9	N.A.
Hungary	1.2	3.7	6.3	13.8	15.1	13.4	15.4	17.3	17.3
Poland	N.A.	6.1	15.4	30.5	35.4	38.7	41.1	40.7	40.7
Romania	5.6	7.4	11.3	14.5	17.3	18.3	21.2	22.8	N.A.

<sup>a</sup> Data are for tons originated, thus giving a more realistic comparison with the Communist countries.

Table 175 Thousand UnitsMainline Locomotive Inventory <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979
OECD								
United States <sup>b</sup>	31.18	30.06	29.12	30.20	29.64	29.70	27.02	27.88
Austria	1.48	1.40	1.20	1.19	1.21	1.21	1.20	1.21
Spain	3.64	3.38	1.70	1.14	1.17	1.19	1.20	1.20
Sweden	1.88	1.66	1.58	1.42	1.41	1.40	1.38	1.37
Switzerland	1.10	1.26	1.33	1.42	1.42	1.43	1.44	1.44
European Community	43.0	32.4	24.6	23.6	23.1	23.0	23.3	23.1
France	7.96	7.36	6.07	5.98	5.96	6.00	6.08	6.06
Italy	5.28	4.47	3.58	3.63	3.44	3.49	3.70	3.69
United Kingdom	16.05	8.08	4.45	3.86	3.73	3.69	3.69	3.71
West Germany	10.44	9.59	8.05	7.65	7.51	7.42	7.34	7.18
Communist Countries								
USSR and Eastern Europe	55.8	49.5	48.9	59.5	62.1	64.4	N.A.	N.A.
USSR	34.00	26.90	28.90	37.13	38.99	40.76	42.59	44.34
Eastern Europe	21.8	22.6	20.0	22.4	23.1	23.6	N.A.	N.A.
Bulgaria	0.64	0.73	0.68	0.64	0.69	0.73	0.75	N.A.
Czechoslovakia	5.23	5.20	4.60	4.98	4.87	4.78	4.68	4.48
East Germany	6.00	6.00	5.00	5.92	5.91	5.89	5.90	5.62
Hungary	2.46	2.60	2.00	1.92	2.25	2.29	2.32	2.36
Poland	5.80	6.33	6.25	7.04	7.16	7.34	7.18	7.51
Romania	1.72	1.78	1.50	1.88	2.26	2.62	N.A.	N.A.
Other								
China	5.60	5.34	6.53	8.63	9.06	9.25	9.68	10.15
North Korea	0.35	0.40	0.49	0.67	0.74	N.A.	N.A.	N.A.

<sup>a</sup> Unless otherwise indicated, data are for the state or principal railroad system and include diesel, diesel-electric, steam, and electric locomotives. Data are as of the end of the year.

<sup>b</sup> Data are for secondary or private railroads operating as common carriers and include gas turbine locomotives.

Table 176

Railroad Freight Car Inventory <sup>a</sup>

	1960	1965	1970	1975	1976	1977	1978	1979
OECD								
United States <sup>b</sup> <sup>c</sup>	1,945.7	1,806.2	1,803.7	1,755.5	1,730.5	1,697.4	1,683.4	1,725.4
European Community								
France	362.6	362.3	302.4	283.9	273.9	265.3	257.0	252.5
United Kingdom <sup>c</sup> <sup>d</sup>	956.0	605.6	383.9	239.7	205.4	185.5	168.8	160.1
West Germany	309.6	329.5	321.0	335.1	337.9	338.3	333.1	330.7
Communist Countries								
USSR and Eastern Europe								
USSR	949.0	1,030.0	1,140.0	1,410.4	1,484.4	1,558.4	1,631.9	1,697.2
Eastern Europe								
Bulgaria	22.0	33.0	37.8	43.0	45.0	46.5	N.A.	N.A.
Czechoslovakia	129.3	136.1	135.8	136.0	138.0	141.6	146.9	N.A.
East Germany	154.3	152.0	150.0	141.8	142.7	140.0	148.0	N.A.
Hungary	62.0	73.4	71.4	88.9	102.3	120.0	125.0	128.0
Poland	249.0	263.9	274.3	305.0	306.0	307.0	N.A.	328.3 <sup>e</sup>
Romania	55.5	68.6	86.0	95.0	109.3	121.1	N.A.	N.A.
Other								
China <sup>f</sup>	132.0	143.0	175.0	237.0	251.0	267.0	269.3	282.6
North Korea <sup>f</sup>	10.4	15.2	23.8	45.3	51.6	N.A.	N.A.	N.A.

<sup>a</sup> Units of two, four, or more axles. Unless otherwise indicated, data refer to both state and private ownership of cars used on the state or principal railroad system. Data are as of the end of the year. Because of the lack of comparability in data, totals for the OECD and the Communist countries are omitted.

<sup>b</sup> Units of four or more axles.

<sup>c</sup> Including secondary or private railroads operating as common carriers.

<sup>d</sup> Excluding privately owned tank cars and including data for Northern Ireland.

<sup>e</sup> Data are for 1980.

<sup>f</sup> The majority are four-axle units.

**Table 177** Thousand Units**Civilian Truck Inventory <sup>a</sup>**

	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>OECD</b>									
United States <sup>b</sup>	11,329	14,035	17,843	24,612	26,583	28,312	30,411	31,992	33,595
<b>European Community</b>									
France <sup>c</sup>	1,598	2,134	2,678	2,078	2,201	2,336	2,453	N.A.	N.A.
United Kingdom <sup>d</sup>	1,442	1,726	1,768	1,677	1,762	1,700	1,721	1,862	1,925
West Germany <sup>e</sup>	688	975	1,141	1,281	1,292	1,326	1,368	1,443	N.A.
<b>Communist Countries</b>									
USSR and Eastern Europe	3,670	4,620	5,730	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
USSR	3,140	3,900	4,700	7,000	7,770	8,400	9,120	10,000	N.A.
Eastern Europe	529	715	1,030	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Bulgaria	68	95	115	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Czechoslovakia	117	140	198	261	275	290	309	325	N.A.
East Germany	132	166	282	301	313	333	327	334	N.A.
Hungary	29	43	74	109	112	122	129	N.A.	N.A.
Poland	130	189	274	425	467	510	544	580	N.A.
Romania	53	82	139	150	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Other</b>									
China <sup>f</sup>	154	230	434	914	1,033	1,142	1,278	1,445	1,644
North Korea <sup>f</sup>	11	30	54	116	135	152	170	191	N.A.

<sup>a</sup> Unless otherwise indicated, data are as of the end of the year and include wheeled tractors for road haulage and exclude military trucks of all types.

<sup>b</sup> Data are for the number of registrations of privately owned trucks and include duplications when trucks are registered in more than one state.

<sup>c</sup> Beginning in 1975, only trucks less than 10 years old are being counted.

<sup>d</sup> Including data for Northern Ireland. Data are as of 1 October of the stated year.

<sup>e</sup> As of 1 July of the stated year.

<sup>f</sup> Including both military and civilian trucks.



Table 178

Merchant Fleet Inventory <sup>a</sup>

	1965		1970		1975		1978		1979		1980	
	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT
World Total	17,825	214,069	19,503	325,149	22,353	556,388	24,036	633,368	24,155	641,258	23,855	638,080
Non-Communist Countries	16,243	202,277	17,020	303,720	19,222	523,247	20,378	588,843	20,456	595,419	20,035	590,671
OECD	12,440	148,453	12,164	208,962	11,286	316,611	11,288	325,160	11,126	320,041	10,971	323,210
Non-European Community	7,489	90,974	7,486	128,015	7,145	196,171	7,449	207,851	7,436	206,559	7,391	212,415
United States <sup>b</sup>	2,376	28,283	1,579	21,346	857	17,694	590	19,492	582	19,600	568	20,169
Greece <sup>c</sup>	916	10,388	1,195	18,214	1,804	37,638	2,750	59,453	2,808	63,600	2,835	67,067
Japan	1,333	16,450	2,109	39,142	2,051	63,238	1,890	55,871	1,849	57,405	1,843	57,322
Norway	1,365	23,538	1,173	32,374	991	47,796	673	39,934	626	38,272	613	36,789
Sweden	443	5,643	366	6,898	324	12,723	266	8,831	256	6,911	258	6,378
Other	1,056	6,672	1,064	10,041	1,118	17,082	1,280	24,270	1,315	20,771	1,274	24,689
European Community	4,951	57,479	4,678	80,947	4,141	120,440	3,839	117,309	3,690	113,482	3,580	110,794
France	542	6,406	457	9,007	444	17,690	394	20,326	364	20,770	354	20,327
Italy	588	6,917	625	9,803	633	16,081	679	18,815	672	18,335	647	17,331
United Kingdom	2,052	26,385	1,772	37,065	1,576	54,913	1,407	49,922	1,356	46,168	1,313	45,386
West Germany	843	7,184	993	11,697	611	13,453	557	12,786	495	11,873	470	11,630
Other	926	10,587	831	13,375	877	18,303	802	15,460	803	16,316	796	16,120
Non-OECD Countries	3,803	53,824	4,856	94,758	7,936	206,636	9,090	263,683	9,330	275,378	9,064	267,462
Flag of Convenience	1,898	38,341	2,686	72,065	4,675	159,568	5,056	191,653	4,937	192,744	4,863	189,477
Cyprus	21	207	217	1,933	573	4,762	484	3,252	432	2,826	347	2,212
Liberia	1,313	30,906	1,840	60,992	2,546	132,694	2,369	154,745	2,271	155,342	2,191	150,058
Panama	564	7,228	629	9,140	1,556	22,112	2,203	33,656	2,234	34,576	2,325	37,207
Other Countries	1,905	15,483	2,170	22,693	3,261	47,068	4,034	72,030	4,393	82,634	4,201	77,985
Brazil	227	1,590	201	2,017	260	4,546	285	6,128	258	6,416	278	7,681
India	210	2,266	242	3,709	308	6,943	366	9,178	368	9,279	365	9,359
Malaysia/Singapore	8	19	99	643	429	8,118	714	12,584	699	13,038	651	12,571
Other	1,460	11,608	1,628	16,324	2,264	27,461	2,669	44,140	3,068	53,901	2,907	48,374

Communist Countries	1,582	11,792	2,483	21,429	3,131	33,141	3,658	44,522	3,699	45,839	3,820	47,409
USSR and Eastern Europe	1,171	9,462	1,939	16,845	2,290	23,337	2,502	29,232	2,502	29,890	2,527	30,143
USSR <sup>d</sup>	985	7,961	1,395	11,921	1,622	15,044	1,737	18,391	1,718	18,551	1,725	18,919
Eastern Europe	186	1,501	544	4,924	668	8,293	765	10,841	784	11,339	802	11,225
Bulgaria <sup>e</sup>	60	548	106	948	110	1,228	105	1,545	106	1,643	103	1,617
Czechoslovakia <sup>f</sup>	9	105	12	138	14	221	17	230	17	230	16	227
East Germany	60	550	130	1,310	146	1,729	151	1,822	154	1,878	158	1,864
Hungary	17	23	16	28	16	67	23	111	22	105	22	114
Poland <sup>g</sup>	10	105	230	2,000	289	3,866	305	4,690	302	4,701	312	4,705
Romania	30	170	50	500	93	1,182	164	2,443	183	2,782	191	2,698
Other	411	2,330	544	4,584	841	9,804	1,156	15,290	1,197	15,949	1,293	17,266
Albania <sup>h</sup>	8	44	11	72	11	72	10	74	10	74	10	74
China	190	1,075	269	1,944	495	6,082	760	10,400	796	10,933	870	11,800
Cuba	31	203	53	428	64	581	76	814	73	801	78	893
Yugoslavia	180	1,000	200	2,100	229	2,826	251	3,563	255	3,632	262	3,785
Other <sup>i</sup>	2	8	11	40	42	243	59	439	63	509	73	714

<sup>a</sup> Ships of 1,000 gross register tons (GRT) or more. Data are as of the end of the year. Data for the non-Communist countries include all combination passenger and cargo ships, whereas, unless otherwise indicated, those for the Communist countries exclude passenger ships that have small cargo capacities.

<sup>b</sup> Excluding ships operating only on the Great Lakes and US-owned ships flying the Liberian, Panamanian, and other "flags of convenience."

<sup>c</sup> Excluding Greek-owned ships flying the Liberian, Panamanian, and other "flags of convenience."

<sup>d</sup> Excluding the Caspian Sea Fleet passenger ships and vessels subordinate to the Ministry of the Fishing Industry.

<sup>e</sup> Before August 1968, a few additional Bulgarian-owned ships were operated under the flags of non-Communist countries.

<sup>f</sup> Until March 1967, an undetermined number of Czechoslovak-flag ships were jointly owned with China.

<sup>g</sup> Including some ships flying the Polish flag but under the control of the Chinese-Polish Shipbrokers Corporation. At the end of 1979, there were 9 of these ships.

<sup>h</sup> Data include a number of ships jointly owned by the Chinese-Albanian Joint Stock Shipping Company.

<sup>i</sup> Including North Korean, Vietnamese, and Kampuchean vessels.

Table 179

Tanker Fleet Inventory <sup>a</sup>

	1965		1970		1975		1978		1979		1980	
	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT
World Total	3,533	89,576	4,119	152,450	5,177	301,667	5,363	381,527	5,342	382,107	5,439	379,869
Non-Communist Countries	3,290	85,629	3,759	146,555	4,736	292,241	4,839	369,175	4,773	368,657	4,910	366,527
OECD	2,350	58,883	2,528	96,952	2,917	173,746	2,842	200,641	2,753	196,714	2,855	197,425
Non-European Community	1,403	35,335	1,544	56,404	1,814	103,736	1,843	124,270	1,782	122,956	1,872	125,248
United States <sup>b</sup>	341	7,561	294	7,739	267	9,711	271	14,253	274	15,108	273	15,024
Greece <sup>c</sup>	129	2,970	216	7,714	345	15,557	386	24,162	403	26,817	422	27,997
Japan	236	6,965	368	16,036	531	33,950	531	32,902	534	34,347	567	34,486
Norway	467	13,599	363	17,351	332	28,467	302	31,743	280	30,050	273	28,899
Sweden	73	2,098	80	2,887	79	6,524	71	6,368	64	4,354	69	4,087
Other	157	2,142	223	4,677	260	9,527	282	14,837	227	12,280	268	14,755
European Community	947	23,548	984	40,548	1,103	70,010	999	76,371	971	73,758	983	72,177
France	157	3,682	135	5,799	154	13,190	130	16,318	124	16,885	120	16,632
Italy	143	2,872	198	4,585	236	7,953	263	13,322	254	12,775	247	11,758
United Kingdom	441	11,562	434	20,863	459	32,869	408	33,541	407	30,893	426	30,733
West Germany	48	1,295	59	2,956	83	5,627	74	5,717	61	5,235	67	5,353
Other	158	4,137	158	6,345	171	10,371	124	7,473	125	7,970	123	7,702
Non-OECD Countries	940	26,746	1,231	49,603	1,819	118,495	1,997	168,534	2,020	171,943	2,055	169,102
Flag of Convenience	686	23,310	916	42,708	1,299	100,554	1,246	132,107	1,262	134,960	1,252	130,445
Cyprus	1	13	13	214	47	860	23	385	25	263	21	194
Liberia	534	19,018	730	36,802	1,014	89,470	969	118,228	952	120,643	943	116,018
Panama	151	4,279	173	5,692	238	10,224	254	13,494	285	14,054	288	14,233
OPEC	38	571	42	1,315	82	4,245	178	12,247	188	12,154	206	12,740
Iraq	0	0	0	0	10	380	21	2,145	21	2,153	22	2,164
Kuwait	3	161	6	787	7	1,150	18	2,500	20	2,749	22	2,613
Libya	0	0	0	0	5	410	14	1,500	14	1,506	14	1,506
Venezuela	14	284	16	372	15	440	19	585	14	464	13	409
Other	21	126	20	156	45	1,865	106	5,517	119	5,282	135	6,047
Other Non-OPEC	216	2,865	273	5,580	438	13,696	573	24,180	570	24,829	597	25,917
Brazil	46	604	45	810	53	944	69	3,891	71	4,592	74	5,032
India	8	217	13	510	25	1,510	46	3,494	47	3,443	47	3,467
Other	162	2,044	215	4,260	360	11,242	458	16,795	452	16,744	476	17,419

Communist Countries	243	3,947	360	5,895	441	9,426	524	12,352	569	13,450	529	13,342
USSR and Eastern Europe	212	3,562	301	5,108	331	6,975	368	9,278	409	10,284	361	10,081
USSR <sup>d</sup>	184	3,125	265	4,389	280	4,796	315	6,591	355	7,482	310	7,537
Eastern Europe	28	437	36	719	51	2,179	53	2,687	54	2,802	51	2,544
Bulgaria	11	160	18	267	20	472	19	567	18	549	18	549
East Germany	10	144	9	288	16	612	12	520	13	503	12	427
Poland	5	95	5	95	8	665	14	1,014	14	1,014	13	982
Romania	2	38	4	69	7	430	8	586	9	736	8	586
Other	31	385	59	787	110	2,451	156	3,074	160	3,166	168	3,260
China	19	135	38	375	80	1,916	120	2,500	126	2,594	132	2,513
Cuba	2	5	3	26	6	75	12	112	11	111	11	111
Yugoslavia	10	245	15	380	14	378	13	358	12	355	13	434
Other <sup>e</sup>	0	0	3	6	10	82	11	104	11	106	12	202

<sup>a</sup> Tankers and whaling tankers of 1,000 gross registered tons (GRT) or more. Data are as of the end of the year and include specialized oil and chemical tankers and some combination carriers (oil/dry bulk carriers). For the purposes of this table, the tonnage is converted to deadweight (DWT).

<sup>b</sup> Excluding ships operating only on the Great Lakes and US-owned ships flying the Liberian, Panamanian, and other "flags of convenience."

<sup>c</sup> Excluding Greek-owned ships flying the Liberian, Panamanian, and other "flags of convenience."

<sup>d</sup> Excluding the Caspian Sea Fleet and tankers assigned to the Ministry of the Fishing Industry.

<sup>e</sup> Including North Korean, Vietnamese, and Kampuchean vessels.

Table 180

Fishing Fleet Inventory <sup>a</sup>

	1970		1975		1977		1978		1979		1980	
	Number	Thousand GRT <sup>b</sup>	Number	Thousand GRT	Number	Thousand GRT	Number	Thousand GRT	Number	Thousand GRT	Number	Thousand GRT
OECD												
United States	201	74	1,743	398	1,928	435	1,974	428	2,190	464	2,537	524
Japan	2,386	978	3,149	1,217	3,014	1,159	2,757	926	2,796	1,081	2,989	1,107
Norway	635	182	621	211	652	222	678	221	724	243	715	240
Spain	1,364	433	1,744	550	1,801	584	1,808	586	1,797	570	1,776	558
European Community	<b>2,140</b>	<b>760</b>	<b>2,460</b>	<b>899</b>	<b>2,380</b>	<b>801</b>	<b>2,250</b>	<b>749</b>	<b>2,264</b>	<b>737</b>	<b>2,298</b>	<b>731</b>
France	660	195	620	200	564	196	543	178	521	171	514	170
Netherlands	284	57	392	93	380	86	377	87	371	89	386	94
United Kingdom	577	235	618	236	557	198	528	182	507	170	516	169
West Germany	182	147	147	145	148	138	152	134	146	128	136	117
Communist Countries												
USSR and Eastern Europe	<b>3,430</b>	<b>4,440</b>	<b>4,720</b>	<b>6,560</b>	<b>5,100</b>	<b>7,170</b>	<b>4,960</b>	<b>6,990</b>	<b>5,060</b>	<b>7,150</b>	<b>5,180</b>	<b>7,500</b>
USSR	3,055	3,997	4,219	5,937	4,537	6,440	4,399	6,406	4,460	6,345	4,564	6,678
Eastern Europe	<b>373</b>	<b>445</b>	<b>498</b>	<b>626</b>	<b>563</b>	<b>728</b>	<b>561</b>	<b>580</b>	<b>598</b>	<b>808</b>	<b>615</b>	<b>819</b>
Bulgaria	17	55	34	94	40	110	34	78	40	110	40	110
East Germany	172	136	164	147	161	147	161	112	171	173	171	173
Poland	176	231	270	282	328	353	331	286	344	355	357	354
Romania	8	23	30	103	34	118	35	104	43	170	47	182
Other												
Cuba	167	66	181	81	195	134	201	155	203	167	264	172
Yugoslavia	3	1	3	1	5	3	5	3	6	3	8	3

<sup>a</sup> Data are as of midyear.<sup>b</sup> Gross register tons; excluding ships under 100 GRT.

Table 181

Offloading Ports Accessible to Fully Loaded Tankers  
of 200,000 Deadweight Tons and Larger, January 1981

	Port	Largest Loaded Tanker Accommodated (Thousand DWT)	Port	Largest Loaded Tanker Accommodated (Thousand DWT)
OECD			OECD (continued)	
Canada	Come by Chance	500	Japan (continued)	Uhita 270
	Saint John, New Brunswick	350		Yokaichi 270
	Point Tupper	350		Yokohama 270
France	Antifer	700		Nagoya 255
	Marseille/Fos	400		Chiba 250
	Dunkirk	300		Oita 250
	Le Havre	300		Shimizu 250
	Sete	275		Shimotsu 250
	Bordeaux	200		Ube 250
Greece	Aghii Theodori	250		Mizushima 230
	Megara	540		Himeji 210
Ireland	Bantry Bay	500		Owase 210
Italy	Gela	500		Wakayama 200
	Genoa	500	Netherlands	Rotterdam 300
	Milazzo (Sicily)	330	Norway	Mongstad 300
	Ancona	300		Slagenstangen (Oslo) 260
	Falconara	300	Portugal	Sines 300
	Ravenna	265	Spain	Bilbao 500
	Augusta (Sicily)	250		Malaga 300
	Porto Torres (Sardinia)	250		Terragona 300
	Savona	250		Algeciras 250
	Taranto	210		Cartagena 250
	Gaeta	200		Castellon 200
	Sarroch (Sardinia)	200		Las Palmas (Canary Islands) 200
Japan	Kagoshima	500		Teneriffe (Canary Islands) 200
	Okinawa	500	Sweden	Brojorden 350
	Niigata	280		Goteborg 350
	Kashima	270	Turkey	Izmit 250
	Kawasaki	270		

Table 181 (continued)

Offloading Ports Accessible to Fully Loaded Tankers  
of 200,000 Deadweight Tons and Larger, January 1981

OECD (continued)		Other Countries (continued)	
Port	Largest Loaded Tanker Accommodated (Thousand DWT)	Port	Largest Loaded Tanker Accommodated (Thousand DWT)
United Kingdom	Liverpool	Israel	Eilat
	Finnart	Netherlands Antilles	Curacao
	Milford Haven		Bonaire
	Southampton		Aruba
	Coryton	Philippines	Batangas
	Humber River	Singapore	Singapore
United States	L.O.P.	South Africa	Durban
West Germany	Wilhelmshafen	South Korea	Ulsan
Other Countries		China (Taiwan)	Kaohsiung
Bahamas	Freeport	Trinidad	Point-a-Pierre
Brazil	Sao Sebastio		Galeota Point
Chile	Quintero Bay	Yugoslavia	Omishal





- Acetate fabrics 150  
 Acid, sulfuric 140  
 Aggregate factor productivity, USSR 60  
 Agricultural labor force 50  
 Agricultural prices 43  
 Agricultural production index 37  
 Aid, US economic loans and grants, to LDCs 99  
 Aid, US, LDCs, to, by recipient 99  
 Aircraft, civil, inventory 195  
 Air freight 195  
 Air passengers 194  
 Aluminum, primary 129  
 Ammonia, synthetic 139  
 Automobiles, passenger, production 157  
 Average annual rates of growth in industrial production, by branch of industry, USSR 61  
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 Balance, current account, developed countries 6, 35  
 Balance, current account, OPEC 6, 7, 35  
 Balance of payments, USSR 62  
 Balance, trade, non-Communist countries 70  
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 Big Seven: Energy Consumption by Type of Fuel 11  
 Big Seven, Energy Consumption, Oil Consumption, and GNP Growth 10  
 Big Seven exports 74  
 Big Seven imports 76  
 Big Seven trade 72  
 Big Seven trade balance 78  
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 Bilateral capital flows to LDCs, gross, by recipient 97  
 Brown coal 112  
 Burden, tax, industrial countries 8  
 Buses, production 158  
 Communist countries, trade, foreign (see Trade, foreign, Communist countries)  
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 Construction, total housing 153  
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 Vehicles, automobile, production 157  
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 Washing machines, US, USSR 21  
 Western credits to USSR, drawings 63  
 Western credits to USSR, repayments, scheduled 63  
 Wheat 170  
 Wholesale price index 46  
 Wool 180  
 Woolen fabrics 149  
 World GNP 1, 18, 26  
 World population 1, 18  
 World statistics 13, 18  
 World trade 18  
  
 Zinc, refined 131

## Conversion Factors

To Convert From	To	Multiply By	To Convert From	To	Multiply By
Acres	Hectares	0.4046856	Meters, cubic	Tons, register	0.353147
Acres	Kilometers, square	0.004046856	Miles, nautical	Kilometers	1.852
Acres	Meters, square	4046.856	Miles, statute	Centimeters	160934.4
Centimeters	Meters	0.01	Miles, statute	Meters	1609.344
Centimeters, square	Meters, square	0.0001	Miles, statute	Kilometers	1.609344
Degrees, Fahrenheit	Degrees, Celsius	subtract 32 and multiply by 5/9	Miles, square	Hectares	258.9998
Feet	Centimeters	30.48	Miles, square	Kilometers, square	2.589998
Feet	Meters	0.3048	Ounces, avoirdupois	Grams	28.349523
Feet	Kilometers	0.0003048	Ounces, avoirdupois	Kilograms	0.028349523
Feet, cubic	Liters	28.316847	Ounces, troy	Pounds, troy	0.083333
Feet, cubic	Meters, cubic	0.028316847	Ounces, troy	Grams	31.10348
Feet, square	Centimeters, square	929.0304	Pints, liquid	Milliliters	473.176473
Feet, square	Meters, square	0.09290304	Pints, liquid	Liters	0.473176473
Gallons, US liquid	Liters	3.785412	Pounds, avoirdupois	Grams	453.59237
Gallons, US liquid	Meters, cubic	0.003785412	Pounds, avoirdupois	Kilograms	0.45359237
Grams	Ounces, troy	0.032151	Pounds, avoirdupois	Quintals	0.00453592
Grams	Pounds, troy	0.002679	Pounds, avoirdupois	Tons, metric	0.000453592
Hectares	Kilometers, square	0.01	Pounds, troy	Ounces, troy	12
Hectares	Meters, square	10,000	Pounds, troy	Grams	373.241722
Inches	Centimeters	2.54	Quarts, dry	Liters	1.101221
Inches	Meters	0.0254	Quarts, dry	Dekaliters	0.1101221
Inches, cubic	Milliliters	16.387064	Quarts, liquid	Milliliters	946.352946
Inches, cubic	Liters	0.016387064	Quarts, liquid	Liters	0.946352946
Inches, cubic	Meters, cubic	0.000016387064	Quintals	Tons, metric	0.1
Inches, square	Centimeters, square	6.4516	Tons, long	Kilograms	1016.047
Inches, square	Meters, square	0.00064516	Tons, long	Tons, metric	1.016047
Kilograms	Ounces, troy	32.15075	Tons, metric	Quintals	10
Kilograms	Pounds, troy	2.679229	Ton-miles, long	Ton-kilometers, metric	1.635169
Kilograms	Tons, metric	0.001	Ton-miles, short	Ton-kilometers, metric	1.459972
Kilometers, square	Hectares	100	Tons, register	Meters, cubic	2.831685
Liters	Milliliters	1000	Tons, short	Kilograms	907.185
Liters	Meters, cubic	0.001	Tons, short	Tons, metric	0.907185
Meters	Millimeters	1000	Yards	Centimeters	91.44
Meters	Centimeters	100	Yards	Meters	0.9144
Meters	Kilometers	0.001	Yards, cubic	Liters	764.5549
Meters, cubic	Liters	1000	Yards, cubic	Meters, cubic	0.7645549
			Yards, square	Meters, square	0.836127